SUBJECT INDEX

A

Accident(s)
See also Fractures; Injuries; *and under structures involved.*
services
— in Burma, 657.
— in Malaysia, 234.
traffic
— "Accident Flying Squad", 875.
— resolutions of 2nd Road Traffic Seminar of Royal Australasian College of Surgeons, 1972, 656.
Acromio-clavicular joint, dislocation, persistent, repair of, 232.
Acrylics: methyl methacrylate bone cement in total hip replacement, cardiovascular effects of, 210.
Adrenocortical steroids
influence of cortisone on bone and cartilage induction in various animals, *595.
influence on normal and papain-treated articular cartilage in rabbit, *197.
therapy with:
— arthropathy and necrosis of femoral head complicating, *246.
— effect on wound healing, 128, *134.
Alcoholism, arthropathy and necrosis of femoral head in, *246.
Amputation(s)
amputations, prosthetics and orthotics, 883.
Boyd's, for congenital pseudarthrosis of tibia, *179.
for osteosarcoma of lower part of femur: hip disarticulation *versus* high thigh amputation, *189.
hindfoot, modified, 439.
Syme's, 666, 884.
— two-stage, for diabetic vascular disease, 434.
Amputees
juvenile: amputee clinic at Royal Children's Hospital, Melbourne, 223.
lower limb, immediate post-operative prosthetic fitting of, 434.
Anaesthesia in lumbar disc surgery: problems associated with use of knee-chest position, *279.
Analgesics, arthropathy and necrosis of femoral head complicating prolonged use of, *246.
Angiography. *See also* Microangiography.
Angioma. *See also* Haemangioma.
Ankle
ball and socket, in metatarsus adductus varus, *193.
disarticulation: Syme's amputation, 666, 884.
— two-stage, for diabetic vascular disease, 434.
injuries
— fracture of dome of talus, *319.
— ligamento-osseous, experimental study, 662.
ligaments
— injuries, 663.
— — chronic sprains and ankle arthrographs, 233.
— lateral: functional anatomy, and its relationship to injuries, 662.
varus deformity of, forces under foot in, 335.
Ankylosing spondylitis, post-radiation sarcoma in, *183.
Anterior tibial syndrome, 666.
Anticoagulants: heparin, low-dosage, in prevention of thromboembolism after fracture of femoral neck, 213.
Arteries, injuries of, complicating skeletal trauma in lower limb, 236.
Arteriography. *See also* Microangiography.
Arthritis
infectious, of hip, treatment, operative, 224.
rheumatoid
— elbow in, surgery of:
— — arthroplasty: metallic hinge prosthesis, 874.
— — synovectomy, *106.
— foot in, surgery of: arthroplasty of forefoot, *126.
— hand in:
— — bone density changes measured by quantitative colour television image analyser, *359.
— — surgery of, 227, 440.
— — — arthroplasty of finger joints: Swanson prosthesis, 664.
— — swan neck deformity, surgical solution to, 665.
— — ulnar drift, relation to wrist deformities, 664.
— knee in:
— — surgery of, 228.
— — — arthroplasty: tibial plateau hemiarthroplasty, double, *112.
— — — osteotomy, double, 433.
— — — synovectomy, 215.
— — — — long-term follow-up, *786.
— — synovial cysts, treatment of, *119.
— shoulder in, total replacement arthroplasty of, 217.
— spine in, cervical, 665.
— — instability, atlanto-axial (*editorial*), 456.
— — neurological complications following involvement of atlanto-axial complex, 217.
— — subluxation, atlanto-axial, *458.
— — — atlanto-axial arthrodesis for, *482.
— — upward translocation of dens, *471.
— treatment, operative
— — priorities in, 220.
— — wound healing after, 128, *134.
— tuberculin sensitivity in, 428.
— wrist in:
— — deformities of, and their relation to ulnar drift, 233, 664.
— — surgery of: excision of distal end of ulna, *96.
Arthrodesis. *See under specific joints, etc.*
Arthrogryposis multiplex congenita, elbow in, *834.
Arthropathy
corticosteroid-induced, experimental study: influence of corticosteroids on normal and papain-treated articular cartilage in rabbit, *197.
drug-induced, and necrosis of femoral head, *246.
Arthroplasty. *See also under* Specific joints.
total replacement
— cobalt-chrome prostheses, some biological properties of wear particles generated by, 424.
— laboratory tests on prostheses, *759.
transplantation of isolated chondrocytes into joint surfaces in rabbit, 209.
Artificial limbs
See also Amputations; Amputees.
amputations, prosthetics and orthotics, 883.
knee in, 434.
Atlanto-axial joint
arthrodesis, *482.
fracture-dislocations: failure of posterior C.1 to C.2 fusion, *490.
instability (*editorial*), 456.
— upward translocation of dens in rheumatoid arthritis, *471.

* Indicates full article or appreciable part.

Atlanto-axial joint (*continued*):
rheumatoid, neurological complications of, 217.
subluxation
— in Morquio syndrome, *478.
— in rheumatoid arthritis, *458.
Atlanto-occipital joint, congenital abnormalities of, 223.
Australasia: Royal Australasian College of Surgeons, resolutions of 2nd Road Traffic Seminar, 1972, 656.
Australian Orthopaedic Association
annual meeting, 1971, 219.
3rd combined meeting with New Zealand Orthopaedic Association, 1972, 429.
L. O. Betts memorial medal, awards, 231, 429.
presidential address, 229.
Auto-immunogenicity of articular cartilage, 233.
Automobile accidents. *See* Accidents, traffic.
Autoradiographic studies:
with phosphorus-32: osteogenesis in the osteoarthritic femoral head, *262.
with sulphur-35: influence of corticosteroids on normal and papain-treated articular cartilage in rabbit, *197.
with tritiated proline: effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
with tritiated thymidine: chondrocyte multiplication in osteoarthritic articular cartilage, *588.
Axis vertebra: dens
congenital hypoplasia of, in Morquio syndrome, atlanto-axial subluxation due to, *478.
fractures of: failure of posterior C.1 to C.2 fusion for atlanto-axial fracture-dislocations, *490.
upward translocation of, in rheumatoid arthritis, *471.

B

Back
See also Spine; Intervertebral discs.
pain, low
— recalcitrant: access to ilio-lumbar angle for root clearance and unilateral lateral spine fusion, 440.
— with femoral neuritis, 232.
Bedbrook, G. M., awarded L. O. Betts memorial medal, 429.
Betts, L. O., Memorial Medal, awards, 231, 429.
Blood pressure. *See also* Hypotension.
Blood vessels. *See* Arteries; Veins; Vascular . . .
Bone(s)
See also specific bones.
See also terms beginning with Ost-.
blood supply: venous drainage of the human vertebral body, *528.
density
— in osteoarthritis, 212.
— measurement by quantitative colour television image analyser, *359.
eosinophilic granuloma, 236.
— and its relationship to Hand-Schüller-Christian and Letterer-Siwe syndromes, *545.
grafting
— *See also* Osteogenesis.
— cortical grafts, place of, 439.
— experimental: beneficial effect upon osteogenesis of impregnating xenograft bone with autologous red marrow, *402.
— homogenous, relevance of tissue typing to, 880.
— in some unusual circumstances, 439.
growth
— *See also* Osteogenesis.
Bone(s)
growth (*continued*):
— physico-chemical factors controlling, 428.
infections. *See* Osteomyelitis; Tuberculosis.
metabolism, effect of diphosphonates on, *66.
necrosis, avascular
— *See also* Osteochondritis.
— embolic, experimental, 655.
Paget's disease
— sarcoma in, 880.
— treatment, diphosphonates, *76.
radioisotope scanning of: fluorine-18 and strontium-87m scintigraphy in management of infective spondylitis, *301.
repair and regeneration
— *See also* Fracture healing.
— around screws, *633.
resorption
— effect of diphosphonates on, *66.
— effect of varying oxygen tension on, in mouse calvaria in organ culture, 656.
— role of lysosomal enzymes in, *87.
sclerosis in myeloma, *621.
screws, mechanical factors influencing their holding power in compact bone, *633.
transplantation. *See* Bone grafting.
tumours
— cartilaginous, of hand, 881.
— chondroblastoma of tibia with pulmonary metastases, *848.
— fibrosarcoma, post-radiation, in ankylosing spondylitis, *183.
— haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
— haemangiopericytoma, primary, *854.
— lipoma, intraosseous, *624.
— malignant, of spine, paraplegia due to, results of laminectomy for, *497.
— myeloma
— — multiple, osteosclerosis in, *621.
— — solitary, of clavicle with long survival after total excision, *357.
— of lower limb, amputation for, immediate prosthetic fitting after, 434.
— osteoblastoma, benign, 434.
— — recurrent, of second thoracic vertebra, *841.
— osteochondroma. *See* Exostoses, osteocartilaginous.
— osteoclastoma, multiple, *350.
— osteosarcoma
— — immunological aspects: demonstration of tumour-associated antigens in human osteosarcomas, 654.
— — of lower part of femur, hip disarticulation *versus* high thigh amputation for, *189.
— sarcoma in Paget's disease, 880.
— treatment, block resection, 441.
Book reviews:
American Academy of Orthopaedic Surgeons. *Instructional Course Lectures*, Vol. 21, 1972, 892.
American Academy of Orthopaedic Surgeons. Symposium on myelomeningocele, 1972, 892.
Apley, A. G., *ed.* Modern trends in orthopaedics —6, 1972, 239.
Bailey, H. Hamilton Bailey's Emergency surgery, 9th edition, 1972, 448.
Bateman, J. E. The Shoulder and neck, 1972, 673.
Bourne, G. H., *ed.* Biochemistry and physiology of bone, 2nd edition, 1972, 444.
Braakman, R., and Penning, L. Injuries of the cervical spine, 1971, 889.
Cramer, L. M., and Chase, R. A., *eds.* Symposium on the hand, 1971, 242.
Duthie, R. B., *et al.* Management of musculoskeletal problems in the haemophilias, 1972, 888.

* Indicates full article or appreciable part.

Book reviews (*continued*):
Eaton, R. G. Joint injuries of the hand, 1971, 674.
Flatt, A. E. Care of minor hand injuries, 3rd edition, 1972, 242.
Hall, R. M., *ed.* Air instrument surgery, Vol. 2 (Orthopaedics), 1972, 447.
Hirohata, K., and Morimoto, K. Ultrastructure of bone and joint diseases, 1971, 891.
Hirsch, C., and Zotterman, Y., *eds.* Cervical pain, 1972, 672.
Jacobson, S. A. Comparative pathology of the tumors of bone, 1971, 240.
Jaffe, H. L. Metabolic, degenerative and inflammatory diseases of bones and joints, 1972, 890.
James, C. C. M., and Lassman, L. P. Spinal dysraphism, 1972, 447.
Kendall, H. O., Kendall, F. P., and Wadsworth, G. E. Muscles: testing and function, 2nd edition, 1971, 446.
Krusen, F. H., *ed.* Handbook of physical medicine and rehabilitation, 2nd edition, 1971, 241.
Lang, J., and Wachsmuth, W., *eds.* Praktische Anatomie, 2nd edition, Vol. 1, Pt. 4 (Bein und Statik), 1972, 446.
Lichtenstein, L. Bone tumors, 4th edition, 1972, 674.
Maitland, G. D. Vertebral manipulation, 3rd edition, 1973, 893.
Menczel, J., and Harell, A., *eds.* Calcified tissue, 1971, 673.
Miller, M., and Miller, J. H. Orthopaedics and accidents, 1972, 675.
Montagu, A. The Elephant man, 1972, 243.
Nigst, H., *ed.* Spezielle Frakturen- und Luxationslehre, Vol. 1, Pt. 2, 1972, 239.
Nordin, B. E. C. Metabolic bone and stone disease, 1973, 891.
O'Connell, A. L., and Gardner, E. B. Understanding the scientific bases of human movement, 1972, 893.
Rehbein, F., *ed.* Der Unfall im Kindesalter, 1972, 672.
Rudinger, E., *ed.* Having an operation, 1973, 890.
Lo Scalpello (English edition), Vol. 1, No. 1, 1971, 238.
Schajowicz, F., Ackerman, L. V., and Sissons, H. A. Histological typing of bone tumours, 1972, 444.
Schmorl, G., and Junghanns, H. The Human spine in health and disease, 2nd American edition, 1971, 889.
Shands' Handbook of orthopaedic surgery, 8th edition, 1971, 674.
Shanks, S. C., and Kerley, P., *eds.* Text-book of x-ray diagnosis, 4th edition, Vol. 6, 1971, 445.
Spinner, M. Injuries to the major branches of peripheral nerves of the forearm, 1972, 241.
Sutton, N. G. Injuries of the spinal cord, 1973, 889.
Talmage, R. V., and Munson, P. L., *eds.* Calcium, parathyroid hormone and the calcitonins (proceedings of 4th parathyroid conference), 1972, 892.
Tubiana, R., and Hueston, J. T., *eds.* La Maladie de Dupuytren, 2nd edition, 1972, 242.
Volkov, M. V. Childhood osteology: bone tumours and dysplasias, 1972, 671.
Volkov, M. V., and Bizer, V. Homotransplantation of bone tissue in children, 1972, 671.
Weber, B. G. Die Verletzungen des oberen Sprunggelenkes, 2nd edition, 1972, 240.
Woods, C. G. Diagnostic orthopaedic pathology, 1972, 673.
Wynne-Davies, R. Heritable disorders in orthopaedic practice, 1973, 888.
Boyd amputation for congenital pseudarthrosis of tibia, *179.
Bristow operation for recurrent dislocation of shoulder, 880.
British Orthopaedic Association
election of fellows etc., 218, 651.
meetings: 1972, September, 209; 1973, spring, 874; 1974, spring (*announcement*), 443.
presidential address, 1973, 883.
British Orthopaedic Research Society, meetings: 1972, November, 428; 1973, March, 653.
British Society for Surgery of the Hand: Pulvertaft prize (*announcement*), 443.
Burma, foundation of an orthopaedic and accident service in, 657.
Burrows, Harold Jackson, retirement as chairman of British Editorial Board of the *Journal* (*editorial*), 245.
presentation ceremony, 650.

C

Caisson disease: experimental embolic bone necrosis, 655.
Calcaneus
fractures, treatment, conservative, follow-up, 429.
osteotomy of, with plantar stripping, for talipes cavo-varus, *802.
Calcium metabolism, effect of diphosphonates on, *66.
Calvé-Legg-Perthes' disease. *See* Osteochondritis juvenilis of hip.
Calvé's disease of spine. *See* Vertebra plana.
Canada; Dewar Orthopaedic Club, annual meeting, 1972, 232.
Canadian Orthopaedic Association, annual meeting, 1972, 660.
Cancer. *See under* Tumours; *see also specific terms, and under structures involved.*
Carcinoma metastatic to spine, paraplegia due to, results of laminectomy for, *497.
Carpal tunnel syndrome complicating treatment of Colles's fracture, 543.
Carpo-metacarpal joint of thumb
arthrodesis of, *292.
arthroplasty of, by silicone prosthesis, *285.
osteoarthritis of, excision of trapezium for: review after 25 years, *56.
Cartilage
See also terms beginning with Chondr-.
articular
— auto-immunogenicity of, 233.
— effect of corticosteroids on normal and papain-treated articular cartilage in rabbit, *197.
— effect of osmium tetroxide and nitrogen mustard on, *814.
— "matrix-streaks" in cartilage of femoral head of ageing human subjects, *581.
— nutrition, 221.
— regeneration: chondrocyte multiplication in osteoarthritic articular cartilage, *588.
degradation, role of lysosomal enzymes in, *87.
grafting: transplantation of isolated chondrocytes into joint surfaces, 209.
tumours
— *See also under* Bone tumours.
— cartilaginous tumours of hand, 881.
Cathepsins, role in skeletal tissues, *87.
Catterall, R. C. F., new editor of British edition of the *Journal* (*editorial*), 451.
Cauda equina compression
by extradural malignant tumour, results of laminectomy for, *497.
due to spinal stenosis, 435, *506.

* Indicates full article or appreciable part.

Cerebral palsy
hip in:
— flexion deformity, 430.
— — iliopsoas recession for, 661.
— surgery of: review of soft-tissue operations, 213.
knee flexion deformity in, proximal hamstring release for, by anterior approach, 661.
static and dynamic problems in, *822.
treatment: "space-age technology aiding disabled children", 431.
Cervical spondylosis, 442.
Charnley, John
appointed to personal Chair of Orthopaedics, Manchester University, 421.
low friction arthroplasty of hip
— laboratory tests on the prosthesis, *759.
— problems in, 224.
Chemonucleolysis, 9, 226.
Chest. *See also* Intercostal muscles; Ribs.
Chondroblastoma of tibia with pulmonary metastases, *848.
Chondrocytes. *See under* Cartilage.
Chondrogenesis, induction of, influence of cortisone and implantation site on, in various animals, *595.
Chondrolysis of hip, 214.
Chondroma of hand, 881.
Chondrosarcoma of hand, 881.
Chymopapain. *See under* Papain.
Claudication, intermittent, of cauda equina due to spinal stenosis, 435, *506.
Clavicle
See also Acromio-clavicular joint.
solitary myeloma of, with long survival after total excision, *357.
Claw hand in leprosy, extensor diversion graft for, *58.
Claw toes
in rheumatoid arthritis, arthroplasty of forefoot for, *126.
paralytic: flexor hallucis longus tenodesis for clawing of hallux, 879.
Club foot
anatomical study, *796.
cavo-varus deformity, osteotomy of calcaneus for, with plantar stripping, *802.
incidence in Singapore, 235.
residual adduction of forefoot in, *809.
Club hand, radial, *32.
Cobalt-chrome alloys
Department of Health and Social Security seminar on effects of metals in the body, 421.
in total joint replacement: laboratory tests on prostheses, *759.
Collagen of bone and cartilage, catalysis by lysosomal enzymes, *87.
Colles, Abraham
bicentenary of (*editorial*), 452.
on Colles's fracture (*reprint*), 454.
Colles's fracture, treatment, prospective study, *540.
Condylo-cephalic nailing for trochanteric fractures, *774.
Contracture(s)
Dupuytren's, treatment, operative, *38.
ischaemic, in lower limb: anterior tibial syndrome, 666.
Cortisone
See also Adrenocortical steroids.
influence on bone and cartilage induction in various animals, *595.
Costectomy, partial, as a cosmetic operation in scoliosis, *521.
Coxa plana. *See* Osteochondritis juvenilis of hip.
Cruciate ligament, anterior, injuries of, 667.
Crutches, energy expenditure during walking with, *742.
Cubital tunnel syndrome, 227.
Cysts
See also Ganglia.
extradural, sacral, *20.
popliteal, in rheumatoid arthritis, treatment of, *119.

D

Darrach operation for deranged inferior radio-ulnar joint in rheumatoid arthritis, *96.
Davies, Peter Islwyn Hywel-. *See* Hywel-Davies, Peter Islwyn.
Decompression sickness. *See* Caisson disease.
Dens
congenital hypoplasia of, in Morquio syndrome, atlanto-axial subluxation due to, *478.
fractures of: failure of posterior C.1 to C.2 fusion for atlanto-axial fracture-dislocations, *490.
upward translocation of, in rheumatoid arthritis, *471.
Department of Health and Social Security, seminar on effects of metals in the body, 421.
Dermatomyositis, calcinosis after, effect of diphosphonates on, 75.
Desmoid tumours, extra-abdominal, multicentric, *858.
Dewar Orthopaedic Club, annual meeting, 1972, 232.
De Wet, I. S., appointed to Chair of Orthopaedics, University of Pretoria, 437.
Dextran in prophylaxis of deep vein thrombosis and thromboembolism, 661.
Diabetes mellitus
diabetic neuropathy in orthopaedic practice, 662.
foot breakdown in, orthopaedic management of, 434, 882.
Diastematomyelia complicating congenital scoliosis, 431.
Digital nerves: plantar digital neuroma, 221.
Digito-talar dysmorphism, 439.
Diphosphonates: experimental and clinical aspects, *66.
Diplopodia with hypoplasia or aplasia of tibia, *604.
Disability evaluation, value of a uniform percentage rating in, 220.
Discography, 665.
Discs, intervertebral
infection
— cervical, 232.
— complicating disc surgery, 435.
— pyogenic infections occurring primarily in the discs, *698.
lesions
— clinically simulated by iliac osteomyelitis, 662.
— diagnosis, 665.
— in the teenager, *273.
— treatment
— — access to ilio-lumbar angle for root clearance and unilateral lateral spine fusion, 440.
— — chemonucleolysis, 9, 226.
— — operative, *7.
— — — without fusion, 234.
— — place of surgery in early treatment, 210.
— with femoral neuritis, 232.
mucopolysaccharide metabolism in, comparison in young and old rabbits, 428.
surgery, knee-chest position for, problems associated with, *279.
Dislocations. *See under structures involved.*
Drug-induced arthropathy and necrosis of femora head, *246.
Duchenne muscular dystrophy, early diagnosis of, 226.
Dupuytren's contracture, treatment, operative, *38.
Dwyer, Allan, awarded L. O. Betts memorial medal, 231.

* Indicates full article or appreciable part.

Dysostosis, metaphysial, a metaphysial abnormality with features of, *643.
Dysplasia epiphysialis hemimelica, 662.

E

Edinburgh University
appointment of D. C. Simpson to personal Chair in Orthopaedic Bio-engineering, 652.
establishment of Chair of Rehabilitation Studies, 652.
Education in orthopaedics
in developing countries, 235.
in Indonesia, 219.
Egypt: Mediterranean and Middle Eastern Society of Orthopaedic Surgery and Traumatology, 2nd congress, 1972, 234.
Elbow
arthroplasty: metallic hinge prosthesis in rheumatoid arthritis, 874.
congenital dysplasia, in nail-patella syndrome, *145.
dislocation, with fracture of neck of radius and medial dislocation of head, 647.
in arthrogryposis, *834.
synovectomy of, in rheumatoid arthritis, *106.
"tennis", resistant, as a nerve entrapment, 435.
ulnar nerve compression at, 227.
Electron microscope studies:
effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
"matrix-streaks" in cartilage of femoral head of ageing human subjects, *581.
Ellis plate operation for Smith's fracture, *173.
Embolism
See also Fat embolism; Thromboembolism.
experimental embolic bone necrosis, 655.
Enzymes, lysosomal, role in skeletal tissues, *87.
Eosinophilic granuloma of bone, 236.
and its relationship to Hand-Schüller-Christian and Letterer-Siwe syndromes, *545.
Epiphyses. *See under specific bones.*
Epiphysial dysplasia, hemimelic, 662.
Epiphysial stapling for genu valgum, 667.
Ertl osteomyoplastic below-knee amputation, 884.
Exostoses, osteocartilaginous, subscapular, snapping scapula due to, *345.
Extradural cysts, sacral, *20.

F

Fat embolism, 436.
of bone in etiology of drug-induced arthropathy, 246.
Femoral neuritis, low back pain with, 232.
Femur
epiphysis, upper, slipping of
— acute, 430.
— chondrolysis after, 214.
— morphology of, 653.
fractures
— of neck of
— — association of osteoporosis and of osteoarthritis of hip with, 212.
— — osteomalacia in elderly patients with
— — — clinico-pathological study, *575.
— — — fracture type in relation to, 882.
— — thromboembolism after, prevention by low-dosage heparin, 213.
— — treatment, nailing: Garden nail, 429.
— of shaft of
— — non-union of, Küntscher medullary reaming and nail fixation for, *312.
Femur
fractures
— of shaft of (*continued*):
— — treatment
— — — ambulatory, 440.
— — — "fracture bracing", 429.
— — — medullary nailing, 882.
— trochanteric
— — necrosis of femoral head after, 225.
— — treatment
— — — condylo-cephalic nailing, *774.
— — — internal fixation in lateral position, 224.
— with fracture of tibia in same limb: results of conservative treatment, 212.
head of, necrosis, avascular
— *See also* Hip, osteochondritis.
— after trochanteric fracture, 225.
— drug-induced, *246.
osteotomy at lower end of, with upper tibial osteotomy, for arthritis of knee, 433.
osteotomy at upper end of, for osteoarthritis of hip, 225.
tumours
— haemangiopericytoma, primary, *854.
— osteoclastoma, multiple, *350.
— osteosarcoma of lower part, hip disarticulation *versus* high thigh amputation for, *189.
Fibromatosis. *See also* Desmoid tumours.
Fibrosarcoma, post-radiation, in ankylosing spondylitis, *183.
Finger(s)
See also Hand; Thumb.
arthroplasty: Swanson prosthesis, 664.
Flat foot
congenital, with vertical talus
— morphology of, 428.
— treatment, operative, *566.
peroneal spastic, inheritance of, 428, 881.
plantar pressures in, 335.
Flexor digitorum superficialis tendon transfer to profundus tendon for flexion deformities of hand and wrist in spastic paralysis, 664.
Flexor hallucis longus tenodesis for clawing of hallux, 879.
Fluorine-18 scintigraphy in management of infective spondylitis, *301.
Foot
See also Ankle; Tarso-metatarsal joints; Toes.
amputation
— Boyd's, for congenital pseudarthrosis of tibia, *179.
— hindfoot amputation, modified, 439.
arthrodesis. *See* Tarsus, arthrodesis.
club
— anatomical study, *796.
— cavo-varus deformity, osteotomy of calcaneus for, with plantar stripping, *802.
— incidence in Singapore, 235.
— residual adduction of forefoot in, *809.
congenital deformities
— digito-talar dysmorphism, 439.
— diplopodia with hypoplasia or aplasia of tibia, *604.
— metatarsus adductus, metatarsal osteotomy for, 665.
— metatarsus adductus varus, ball and socket ankle joint in, *193.
diabetic, orthopaedic management of, 434, 882.
flat
— congenital, with vertical talus
— — morphology of, 428.
— — treatment, operative, *566.
— peroneal spastic, inheritance of, 428, 881.
osteochondroses, multiple, in a West Indian family, *864.

* Indicates full article or appreciable part.

Foot (*continued*):
paralysis
— calcaneus deformity, treatment, operative, 438.
— cavo-varus deformity, osteotomy of calcaneus for, with plantar stripping, *802.
— intrinsic, clawing of hallux in, flexor hallucis longus tenodesis for, 879.
— vertical talus in spina bifida, surgical management of, 876.
plantar pressures
— during walking, *335.
— in healthy children and in children with myelomeningocele, *828.
rheumatoid, surgery of: arthroplasty of forefoot, *126.
Forearm fractures, rotational deformity of both bones following, 666.
Forefoot arthroplasty in rheumatoid arthritis, *126.
Fracture(s)
See also under structures involved.
arterial injury complicating, in lower limb, 236.
healing
— after plating: mode of action of compression plates, 214.
— role of pituitary and thyroid in, 442.
non-union, treatment, Küntscher medullary reaming and nail fixation, *312.
osteochondral, of talus, *319.
treatment, plating in compression: A.S.I.F. technique, 222.
Freiberg's disease: multiple osteochondroses of feet in a West Indian family, *864.

G

Gait. *See* Locomotion.
Gallie atlanto-axial arthrodesis, *482.
Ganglia of flexor tendon sheaths in hand, *612.
Garden nail in treatment of fractures of femoral neck, 429.
Genito-urinary system. *See* Urogenital system.
Genu valgum
after fracture of upper tibia in children, 222.
due to a metaphysial abnormality with features of metaphysial dysostosis, *643.
in children, stapling for, 667.
Giant-cell tumour of bone. *See* Osteoclastoma.
Glenoid osteotomy for recurrent posterior dislocation of shoulder, 662.
Gracilis syndrome, 662.
Granuloma, eosinophilic, of bone, 236.
and its relationship to Hand-Schüller-Christian and Letterer-Siwe syndromes, *545.
Growth hormone, role in fracture healing, 442.

H

Haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
Haemangiopericytoma of bone, primary, *854.
Haemophilia, orthopaedic management in, 436.
Hallux valgus
adolescent, oblique transposition osteotomy of first metatarsal for, 663.
forces under foot in, 335.
splaying of first metatarsal space in, 221.
treatment
— arthrodesis, 220.
— Lapidus operation, 221.
Halo-pelvic traction
in correction of kyphosis, 211.
in surgical management of adult scoliosis, 232.
Hamstrings, proximal release of, by anterior approach, 661.
Hand
See also Carpo-metacarpal joints; Wrist.
congenital deformities
— club hand, radial, *32.
— digito-talar dysmorphism, 439.
— in nail-patella syndrome, *145.
— thumb aplasia or hypoplasia, 37.
Dupuytren's contracture, treatment, operative, *38.
ganglia of flexor tendon sheaths, *612.
paralysis, intrinsic, in leprosy, extensor diversion graft for, *58.
rheumatoid
— bone density changes measured by quantitative colour television image analyser, *359.
— surgery of, 227, 440.
— — arthroplasty of finger joints: Swanson prosthesis, 664.
— swan neck deformity, surgical solution to, 665.
— ulnar drift, relation to wrist deformities, 664.
spastic: flexion deformity, transfer of flexor digitorum superficialis to profundus for, 664.
surgery, twenty-five years of: personal reflections, *32.
tendons, flexor
— ganglia of, *612.
— grafting, *42.
— — pedicle graft, 881.
tumours, cartilaginous, 881.
ulnar nerve compression in, 227.
Hand-Schüller-Christian disease and its relationship to eosinophilic granuloma of bone and Letterer-Siwe disease, *545.
Harrington instrumentation of spine for scoliosis, with modification, 431.
Hemimelic epiphysial dysplasia, 662.
Heparin, low-dosage, in prevention of thromboembolism after fracture of femoral neck, 213.
Hereditary sensory radicular neuropathy: clinicopathological study, 663.
Hip
arthropathy, drug-induced, *246.
arthroplasty, total replacement
— acrylic cement in, cardiovascular effects of, 210.
— Charnley low friction, problems in, 224.
— complications
— — diagnosis of, 432, 433.
— — infection, 664.
— energy expenditure during walking before and after, *742.
— experimental, in the baboon, 442.
— laboratory tests on prostheses, *759.
— Ring prosthesis
— — and bone pain, 875.
— — problems of the uncemented total hip replacement, 209.
chondrolysis of, 214.
development in man, changes in shape during, and their relation to hip stability, *780.
disarticulation for osteosarcoma of lower part of femur, *189.
dislocation
— congenital
— — acute traumatic dislocation of congenitally dysplastic hip, *640.
— — association with torticollis, 665.
— — diagnosis, 879.
— — in animals, 877.
— — in the newborn, diagnosis and treatment, 228.
— — incidence in Southland, 430.
— — treatment
— — — between 5 and 15 years, 438.
— — — conservative, 438.
— — — osteotomy of pelvis, complications of, 430.

* Indicates full article or appreciable part.

Hip
dislocation (*continued*):
— paralytic, in spina bifida, use of splintage in management of, *163.
— traumatic, 429, 660.
— — of a congenitally dysplastic hip, *640.
infection
— after total replacement, 664.
— treatment, operative, 224.
mechanics: relationship between degenerative changes and load-bearing, *746.
osteoarthritis
— bone density and, 212.
— chondrocyte multiplication in articular cartilage in, *588.
— energy expenditure during walking before and after unilateral hip replacement, *742.
— "matrix-streaks" in cartilage of femoral head of ageing human subjects, *581.
— osteogenesis in femoral head in, *262.
— radiological changes in, surgical significance of, 660.
— relationship between degenerative changes and load-bearing, *746.
— relationship to pre-existing disorders in an African population, 216.
— treatment, osteotomy, 225.
osteochondritis juvenilis
— experimental, using artificial microemboli, 655.
— in dogs, 877.
— treatment, osteotomy of pelvis, scientific basis for, 216.
paralysis
— *See also* Hip dislocation, paralytic.
— in spina bifida, 661.
spastic
— flexion deformity, 430.
— — iliopsoas recession for, 661.
— surgery of: review of soft-tissue operations, 213.
surgery, weight-bearing analysis after, 442.
Histiocytosis X, *545.
eosinophilic granuloma of bone, 236.
Histocompatibility testing, 880.
Historical items: Colles, Abraham
bicentenary of (*editorial*), 452.
on Colles's fracture (*reprint*), 454.
Hong Kong University: appointment of Arthur Yau to personal chair in orthopaedic surgery, 887.
Humerus
fractures, supracondylar in children, 222.
— acute nerve involvement in, 227.
tumours: haemangiopericytoma, primary, *854.
Hypotension following use of knee-chest position for lumbar disc operations, *279.
Hywel-Davies, Peter Islwyn (*obituary*), 206.

I

Iliac apophyses. *See under* Pelvis.
Iliac horn syndrome, report of three families, *145.
Iliopsoas release for spastic hip flexion deformity, 430, 661.
Ilium. *See under* Pelvis.
Immunology
auto-immunogenicity of articular cartilage, 233.
demonstration of tumour-associated antigens in human osteosarcomas, 654.
Implants. *See* Surgical implants; *see also* Metallic implants.
Indonesia, orthopaedic training programme in, 219.
Infection(s)
See also Arthritis, infectious; Osteomyelitis.
See also specific conditions, and under parts of body involved.
Infection(s) (*continued*):
post-operative
— after disc surgery, 435.
— after hip arthroplasty, total replacement, 664.
— in rheumatoid patients, 128, *134.
Injuries
See also Accidents; Fractures; *and under structures involved.*
disability evaluation after, value of a uniform percentage rating in, 220.
Innominate bone. *See* Pelvis.
Intercostal muscles, activity and function of: electromyographic study, 653.
Intermittent claudication of cauda equina due to spinal stenosis, 435, *506.
Intervertebral disc(s)
infection
— cervical, 232.
— complicating disc surgery, 435.
— pyogenic infections occurring primarily in the discs, *698.
lesions
— clinically simulated by iliac osteomyelitis, 662.
— diagnosis, 665.
— in the teenager, *273.
— treatment
— — access to ilio-lumbar angle for root clearance and unilateral lateral spine fusion, 440.
— — chemonucleolysis, 9, 226.
— — operative, *7.
— — — without fusion, 234.
— — place of surgery in early treatment, 210.
— with femoral neuritis, 232.
mucopolysaccharide metabolism in, comparison in young and old rabbits, 428.
surgery, knee-chest position for, problems associated with, *279.
Intramedullary nailing
Küntscher medullary reaming and nail fixation for non-union of femur and tibia, *312.
of femur, 882.
— condylo-cephalic nailing for trochanteric fractures, *774.
Iron-overload osteoporosis, arthropathy and necrosis of femoral head in, *246.
Ischaemic necrosis
of muscle: anterior tibial syndrome, 666.
of bone. *See* Bone necrosis, avascular.
Isoniazid with P.A.S., with or without streptomycin, in conservative treatment of tuberculosis of spine: controlled trial, *678.

J

Jackson Burrows, Harold. *See* Burrows, Harold Jackson.
Joint(s)
See also specific joints.
See also terms beginning with Arthr-.
articular cartilage
— auto-immunogenicity of, 233.
— degradation, role of lysosomal enzymes in, *87.
— effect of corticosteroids on normal and papain-treated articular cartilage in rabbit, *197.
— effect of osmium tetroxide and nitrogen mustard on, *814.
— "matrix-streaks" in cartilage of femoral head of ageing human subjects, *581.
— nutrition, 221.
— regeneration: chondrocyte multiplication in osteoarthritic articular cartilage, *588.
transplantation: transplantation of isolated chondrocytes into joint surfaces, 209.
Jones, Sir Reginald Watson-. *See* Watson-Jones, Sir Reginald.

* Indicates full article or appreciable part.

Jones, Sir Robert, Lecture, Royal College of Surgeons of England, 1972, 218.
Journal of Bone and Joint Surgery
British Editorial Board
— retirement of H. Jackson Burrows as chairman (*editorial*), 245.
— the reconstructed team (*editorial*), 451.
British volume
— 25th anniversary of (*editorial*), 3.
— — celebrations, 650.
— aims and policy (*editorial*), 677.
quinquennial index 1968-72 (*acknowledgement*), 887.

K

Kidney
dysplasia in nail-patella syndrome, *145.
transplantation, tissue typing in, 880.
Knee
See also Patella.
arthrodesis: unsatisfactory results, 668.
arthroplasty
— tibial plateau hemiarthroplasty, double, in rheumatoid arthritis, *112.
— total replacement, 433.
— — geometric prosthesis, 874.
— — laboratory tests on prostheses, *759.
— — polycentric, 668.
congenital dysplasia, in nail-patella syndrome, *145.
deformities. *See also* Genu valgum.
dislocation, traumatic, complete, 233.
flexion deformity in cerebral palsy, proximal hamstring release for, by anterior approach, 661.
ligaments
— collateral, injuries of, 441.
— cruciate, anterior, injuries of, 667.
osteoarthritis
— following tibial tubercle transfer for recurrent dislocation of patella, 876.
— in footballers, 655.
— quantitative study of patello-femoral cartilage fibrillation in Liverpool necropsies, 655.
— treatment
— — drilling of subchondral bone plate, 226.
— — meniscectomy, medial, 667.
— — osteotomy, double, 433.
osteochondritis dissecans
— in nail-patella syndrome, 145.
— massive, of lateral femoral condyle, 222.
osteotomy, double, for arthritis, 433.
rheumatoid
— surgery of, 228.
— — arthroplasty: tibial plateau hemiarthroplasty, double, *112.
— — osteotomy, double, 433.
— — synovectomy, 215.
— — — long-term follow-up, *786.
— synovial cysts, treatment of, *119.
stiffness: mobilisation by extensive soft-tissue release, 441.
Knee-chest position for lumbar disc operations, problems associated with, *279.
Köhler's disease of tarsal navicular: multiple osteochondroses of feet in a West Indian family, *864.
Korea, tuberculosis of spine in: comparison of ambulant out-patient treatment with in-patient rest in bed, *678.
Krukenberg operation, 885.
Küntscher nailing. *See under* Intramedullary nailing.
Kyphosis
congenital, 233.
correction of, 211, 432.
in spina bifida, 223.
tuberculous, 678.

L

Laminectomy for paraplegia due to extradural malignant tumour, *497.
Lapidus operation for hallux valgus, 221.
Lead, interaction with mammalian tissues, 423.
Leg. *See also* Limbs, lower.
Legg-Calvé-Perthes' disease. *See* Osteochondritis juvenilis of hip.
Leprosy
hand in: intrinsic minus fingers, extensor diversion graft for, *58.
orthopaedic aspects of, 442.
Letterer-Siwe disease and its relationship to eosinophilic granuloma of bone and Hand-Schüller-Christian disease, *545.
Ligaments. *See under specific joints.*
Limbs
artificial. *See* Artificial limbs.
lower, length equalisation, 223.
— surgical lengthening of tibia, improved method, 435.
upper. *See also* Forearm.
Lipid metabolism in drug-induced arthropathy, 252.
Lipoma of bone, intraosseous, *624.
Lisfranc's fracture-dislocation, 666.
Liverpool Medical Institution: Hugh Owen Thomas memorial lecture, 1973, 652.
Liverpool University, degree of M.Ch.(Orth.), 421.
Locomotion
analysis of weight-bearing after hip operations, 442.
energy expenditure during walking before and after unilateral hip replacement, with observations on use of crutches, *742.
forces under foot during walking, *335.
static and dynamic problems in spastic cerebral palsy, *822.
Lowe, Henry George (*obituary*), 207.
Lumbar nerve roots, avulsion of, complicating fractures of pelvis, 662.
Lysosomes: role of lysosomal enzymes in skeletal tissues, *87.

M

McIndoe's operation for Dupuytren's contracture, 39.
MacIntosh hemiarthroplasty of knee, double, in rheumatoid arthritis, *112.
McKee-Farrar arthroplasty of hip
complications of, 432.
laboratory tests on the prosthesis, *759.
Madelung's deformity, 233.
Malaysian Orthopaedic Association, 1st combined meeting with Singapore Orthopaedic Association, 1971, 234.
Manchester University: appointment of John Charnley to personal Chair of Orthopaedics, 421.
Median nerve
compression in carpal tunnel complicating treatment of Colles's fracture, 543.
paralysis complicating supracondylar fractures of humerus in children, 227.
Mediterranean and Middle Eastern Society of Orthopaedic Surgery and Traumatology, 2nd congress, 1972, 234.
Meningoceles
anterior sacral, occurring in a family, *331.
sacral extradural cysts, *20.
Meningomyelocele. *See* Spina bifida.
Meniscectomy
medial, for osteoarthritis of knee, 667.
post-operative management, 667.
Metacarpo-phalangeal joints, arthroplasty of: Swanson prosthesis, 664.

* Indicates full article or appreciable part.

Metallic implants, 432.
See also Surgical implants.
Department of Health and Social Security seminar on effects of metals in the body, 421.
Metaphysial dysostosis, a metaphysial abnormality with features of, *643.
Metatarsal bones
of great toe, oblique transposition osteotomy of, for adolescent hallux valgus, 663.
osteochondroses, multiple, of feet in a West Indian family, *864.
osteotomy of, for congenital metatarsus adductus, 665.
Metatarsalgia, Morton's, 221.
Metatarso-phalangeal joints
arthroplasty of, in rheumatoid arthritis, *126.
of great toe, arthrodesis of, for hallux valgus, 220.
Metatarsus adductus, congenital, metatarsal osteotomy for, 665.
Metatarsus adductus varus, congenital, ball and socket ankle joint in, *193.
Metatarsus primus varus in common foot disorders, 221.
Metatarsus varus, role in residual adduction of forefoot in treated congenital club foot, *809.
Methyl methacrylate. *See under* Acrylics.
Microangiographic study: vascular anatomy within normal tendons, divided tendons, free tendon grafts and pedicle tendon grafts in rabbits, *369.
Monkeys. *See* Primates.
Morquio syndrome, atlanto-axial subluxation in, *478.
Morton's metatarsalgia, 221.
Mucopolysaccharides
of iliac crest growth plate, new method for studying metabolic activity of: relevance to scoliosis, 428.
of intervertebral discs, metabolism of, comparison in young and old rabbits, 428.
Mucopolysaccharidosis, type IV (Morquio syndrome), atlanto-axial subluxation in, *478.
Mucoproteins of bone and cartilage, catalysis by lysosomal enzymes, *87.
Multiple myeloma, osteosclerosis in, *621.
Muscle(s)
See also specific muscles.
artificial: spring implant operation, 883.
infections: pyomyositis tropicans: histology and ultrastructure, 653.
tumour, experimental, effect of elevated tissue temperatures on, 654.
Muscular atrophy, spinal, orthopaedic management of, 663.
Muscular dystrophy, Duchenne's, early diagnosis of, 226.
Myeloma
multiple, osteosclerosis in, *621.
solitary, of clavicle with long survival after total excision, *357.
Myelomeningocele. *See* Spina bifida.
Myositis
ossificans. *See under* Ossification, ectopic.
pyomyositis tropicans: histology and ultrastructure, 653.

N

Nail-patella syndrome: report of three families, *145.
Nailing, intramedullary
Küntscher medullary reaming and nail fixation for non-union of femur and tibia, *312.
of femur, 882.
— condylo-cephalic nailing for trochanteric fractures, *774.
Navicular bone (tarsal)
excision of, for congenital vertical talus, *566.
Köhler's disease of: multiple osteochondroses of feet in a West Indian family, *864.
Neoplasms. *See* Tumours; *see also specific terms, and under tissues involved.*
Nerve(s)
blood supply, effects of nerve stretching on, in rabbit, *390.
compression by tourniquets, 432.
femoral, neuritis, low back pain with, 232.
injuries: effects of stretching tibial nerve of rabbit, *390.
median
— compression in carpal tunnel complicating treatment of Colles's fracture, 543.
— paralysis, complicating supracondylar fractures of humerus in children, 227.
plantar digital neuroma, 221.
posterior interosseous, entrapment of, as cause of resistant tennis elbow, 435.
radial, paralysis, complicating supracondylar fractures of humerus in children, 227.
root(s), lumbo-sacral, avulsion of, complicating fractures of pelvis, 662.
spinal accessory, injury of, complicating surgery, 232.
trigeminal, involvement in rheumatoid arthritis, 463, 474.
ulnar
— compression at elbow, 227.
— compression in wrist and hand, 227.
Neuroma, plantar digital, 221.
Neuropathy, hereditary sensory radicular: clinico-pathological study, 663.
Neurotrophic ulcers. *See* Ulcers, trophic.
Neurovascular cutaneous island pedicle transfer in hand, 226.
New Zealand: Smaill, Graeme Ballantyne (*obituary*), 420.
New Zealand Orthopaedic Association, 3rd combined meeting with Australian Orthopaedic Association, 1972, 429.
Newcastle upon Tyne University, appointment of J. Stevens to Chair of Orthopaedics, 219.
Newman, Philip H., new chairman of British Editorial Board of the *Journal* (*editorial*), 451.
Nitrogen mustard, effect on normal articular cartilage, *814.

O

Obituaries
Hywel-Davies, Peter Islwyn, 206.
Lowe, Henry George, 207.
Robertson, Ivor Murray, 418.
Savill, Douglas Leslie, 871.
Smaill, Graeme Ballantyne, 420.
Watson-Jones, Sir Reginald, 418.
Whiston, Thomas Barret, 872.
White, William Frame, 419.
Wilson, John Dennis, 208.
Occipito-cervical joint, congenital abnormalities of, 223.
Odontoid process. *See* Dens.
Oedema, post-traumatic, after tibial shaft fractures, relation to soft-tissue lymphatic drainage, 877.
Oestrogen excretion in adolescent idiopathic scoliosis, 428.
Onycho-osteodysplasia, hereditary: report of three families, *145.
Organ transplantation, tissue typing in, 880.
Orthopaedic appliances
See also Artificial limbs; Traction.
amputations, prosthetics and orthotics, 883.

* Indicates full article or appreciable part.

Orthopaedic appliances (*continued*):
crutches, energy expenditure during walking with, *742.
hip splintage in management of paralytic dislocation in spina bifida, *163.
"space-age technology aiding disabled children", 431.
Orthopaedic associations of English-speaking world, 6th combined meeting, 1976 (*announcement*), 443.
Orthopaedic implants. *See* Surgical implants; *see also* Metallic implants.
Orthopaedic operations: "on the value of doing nothing or virtually nothing", 213.
Orthopaedic surgeons
and the community, 229.
rehabilitation and, 235.
Orthopaedics
in Burma, 657.
in Malaysia and Singapore, 234.
training in
— in developing countries, 235.
— in Indonesia, 219.
Orthotics. *See* Orthopaedic appliances.
Os calcis. *See* Calcaneus.
Osmium tetroxide, effect on normal articular cartilage, *814.
Ossification
See also Osteogenesis.
ectopic: myositis ossificans progressiva, effect of diphosphonates on, *73.
Osteoarthritis
chondrocyte multiplication in articular cartilage in, *588.
of carpo-metacarpal joint of thumb
— arthrodesis for, *292.
— excision of trapezium for: review after 25 years, *56.
— silicone arthroplasty for, *285.
of hip
— bone density and, 212.
— energy expenditure during walking before and after unilateral hip replacement, *742.
— "matrix-streaks" in cartilage of femoral head of ageing human subjects, *581.
— osteogenesis in femoral head in, *262.
— radiological changes in, surgical significance of, 660.
— relationship between degenerative changes and load-bearing, *746.
— relationship to pre-existing disorders in an African population, 216.
— treatment, osteotomy, 225.
of knee
— following tibial tubercle transfer for recurrent dislocation of patella, 876.
— in footballers, 655.
— quantitative study of patello-femoral cartilage fibrillation in Liverpool necropsies, 655.
— treatment
— — drilling of subchondral bone plate, 226.
— — meniscectomy, medial, 667.
— — osteotomy, double, 433.
Osteoblastoma, benign, 434.
recurrent, of second thoracic vertebra, *841.
Osteochondral fractures of talus, *319.
Osteochondritis dissecans of knee
in nail-patella syndrome, 145.
massive, of lateral femoral condyle, 222.
Osteochondritis juvenilis
multiple, of feet in a West Indian family, *864.
of hip
— experimental, using artificial microemboli, 655.
— in dogs, 877.
— treatment, osteotomy of pelvis, scientific basis for, 216.
Osteochondroma. *See* Exostoses, osteocartilaginous.
Osteoclastoma, multiple, *350.
Osteogenesis
See also Bone grafting; Bone growth; Bone repair; Fracture healing.
in the osteoarthritic femoral head, *262.
induction of, 437.
— influence of cortisone and implantation site on, in various animals, *595.
Osteogenic sarcoma. *See* Osteosarcoma.
Osteomalacia in elderly patients with fracture of femoral neck
clinico-pathological study, *575.
fracture type in relation to, 882.
Osteomyelitis
of ilium simulating lumbar disc syndrome, 662.
of spine
— *See also* Intervertebral disc infection.
— diagnosis, 229.
— — scintigraphy with fluorine-18 and strontium-87m, *301.
— in adults, anterior fusion of spine for, *715.
tuberculous. *See under* Tuberculosis.
Osteo-onychodysplasia, hereditary: report of three families, *145.
Osteoporosis
assessment of, by quantitative colour television image analyser, *359.
association with fracture of femoral neck and with osteoarthritis, 212.
due to iron overload, arthropathy and necrosis of femoral head in, *246.
in etiology of drug-induced arthropathy, *246.
Sudeck-like condition at hip and knee in pregnancy, 441.
Osteosarcoma
immunological aspects: demonstration of tumour-associated antigens in human osteosarcomas, 654.
of lower part of femur, hip disarticulation *versus* high thigh amputation for, *189.
Osteosclerosis in myeloma, *621.
Osteosynthesis
See also Intramedullary nailing; Plating.
mechanical factors influencing holding power of screws in compact bone, *633.
Osteotomy. *See under specific bones.*
Oxygen tension, effect on bone resorption in mouse calvaria in organ culture, 656.

P

Paget's disease of bone
sarcoma in, 880.
treatment, diphosphonates, *76.
Papain
articular cartilage treated with, influence of corticosteroids on, *197.
chymopapain in treatment of intervertebral disc lesions, 9, 226.
Para-aminosalicylic acid with isoniazid, with or without streptomycin, in conservative treatment of tuberculosis of spine: controlled trial, *678.
Paralysis
See also Paraplegia; Tetraplegia.
See also Cerebral palsy; Muscular atrophy; Muscular dystrophy; Poliomyelitis.
See also under structures involved.
due to tourniquets, 432.
spastic
— flexion deformities of hand and wrist in, transfer of flexor digitorum superficialis to profundus for, 664.
— surgery on spinal cord for, 232.

* Indicates full article or appreciable part.

Paralysis (*continued*):
spring implant operation for paralytic deformities, 883.
Paraplegia
complicating pyogenic infection of intervertebral discs, 698.
due to benign osteoblastoma, with recurrence, *841.
due to extradural malignant tumour, results of laminectomy for, *497.
Pott's, 678.
results of programmes of total management in, 437.
Pars interarticularis of lower lumbar vertebrae, structure of, and its relation to etiology of spondylolysis, *735.
Patella, dislocation of
in childhood, 436.
recurrent, treatment, 667.
— patellectomy *versus* realignment, 215.
— tibial tubercle transfer, long-term results, 876.
Patella-nail syndrome, report of three families, *145.
Pelvis
See also Pubic symphysis; Sacrum.
congenital dysplasia, in nail-patella syndrome, *145.
fractures
— cause of death in, 660.
— lumbar nerve root avulsion in, 662.
iliac crest growth plate, metabolic activity of, new method for studying: relevance to scoliosis, 428.
osteomyelitis of ilium simulating lumbar disc syndrome, 662.
osteotomy of
— for congenital dislocation of hip, complications of, 430.
— for Perthes' disease, scientific basis for, 216.
Perkins, George, 80th birthday (*editorial*), 4.
Peroneal spastic flat foot, inheritance of, 428, 881.
Perthes' disease. *See* Osteochondritis juvenilis of hip.
Pes planus. *See* Flat foot.
Phosphorus-32, autoradiographic study with: osteogenesis in the osteoarthritic femoral head, *262.
Pituitary gland. *See also* Growth hormone.
Plantar digital neuroma, 221.
Plasmocytoma. *See* Myeloma.
Plastics. *See* Acrylics; Polyethylene; Silicones.
Plating
See also Osteosynthesis.
of disrupted symphysis pubis, *618.
of fractures in compression
— A.S.I.F. technique, 222.
— mode of action of compression on fracture healing, 214.
of fractures of forearm: Ellis plate operation for Smith's fracture, *173.
of fractures of tibia in compression, 878.
Poliomyelitis
foot in: cavo-varus deformity, osteotomy of calcaneus for, with plantar stripping, *802.
undefeated in Uganda, 232.
Pollicisation. *See under* Thumb reconstruction.
Polyethylene in total joint replacement: laboratory tests on prostheses, 759.
Popliteal cysts in rheumatoid arthritis, treatment of, *119.
Posterior interosseous nerve entrapment as cause of resistant tennis elbow, 435.
Posture: static and dynamic problems in spastic cerebral palsy, *822.
Pretoria University: appointment of I. S. de Wet to Chair of Orthopaedics, 437.
Primates: experimental arthroplasty of hip in the baboon, 442.
Princess Margaret Rose Orthopaedic Hospital, establishment of Chair of Rehabilitation Studies at, 652.
Proline, tritiated, autoradiographic study with: effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
Prostheses
See also Artificial limbs; *and under parts replaced.*
for total joint replacement, laboratory tests on, *759.
spring implant operation, 883.
Proteoglycans
See also Mucopolysaccharides.
of bone and cartilage, catalysis by lysosomal enzymes, *87.
Pseudarthrosis, infantile, of tibia, resection osteosynthesis and Boyd amputation for, *179.
Pubic symphysis
disruption of, plate fixation for, *618.
gracilis syndrome, 662.
Pulmonary embolism. *See* Thromboembolism.
Pulvertaft, R. Guy
awarded C.B.E., 219.
Pulvertaft prize offered by British Society for Surgery of the Hand (*announcement*), 443.
Pyomyositis tropicans: histology and ultrastructure, 653.

R

Radial nerve paralysis complicating supracondylar fractures of humerus in children, 227.
Radiation therapy, complications: fibrosarcoma in ankylosing spondylitis, *183.
Radioisotope scanning of bone: fluorine-18 and strontium-87m scintigraphy in management of infective spondylitis, *301.
Radioisotope studies. *See also* Autoradiographic studies.
Radio-ulnar joint, inferior, rheumatoid, excision of distal end of ulna for, *96.
Radio-ulnar synostosis, surgical creation of, for defects of ulna in children, *327.
Radius
congenital absence or hypoplasia, *32.
fractures
— *See also* Forearm fractures.
— of lower end of:
— — Colles's
— — — Colles's classic description of (*reprint*), 454.
— — — treatment: prospective study, *540.
— — Smith's, Ellis plate operation for, *173.
— of neck of, with medial displacement of head, *647.
Rehabilitation and the orthopaedic surgeon, 235.
Rheumatoid arthritis
elbow in, surgery of:
— arthroplasty: metallic hinge prosthesis, 874.
— synovectomy, *106.
foot in, surgery of: arthroplasty of forefoot, *126.
hand in:
— bone density changes measured by quantitative colour television image analyser, *359.
— surgery of, 227, 440.
— — arthroplasty of finger joints: Swanson prosthesis, 664.
— swan neck deformity, surgical solution to, 665.
— ulnar drift, relation to wrist deformities, 664.
knee in:
— surgery of, 228.
— — arthroplasty: tibial plateau hemiarthroplasty, double, *112.
— — osteotomy, double, 433.
— — synovectomy, 215.
— — — long-term follow-up, *786.
— synovial cysts, treatment of, *119.

* Indicates full article or appreciable part.

Rheumatoid arthritis (*continued*):
shoulder in, total replacement arthroplasty of, 217.
spine in, cervical, 665.
— instability, atlanto-axial (*editorial*), 456.
— neurological complications following involvement of atlanto-axial complex, 217.
— subluxation, atlanto-axial, *458.
— — atlanto-axial arthrodesis for, *482.
— upward translocation of dens, *471.
treatment, operative
— priorities in, 220.
— wound healing after, 128, *134.
tuberculin sensitivity in, 428.
wrist in:
— deformities of, and their relation to ulnar drift, 233, 664.
— surgery of: excision of distal end of ulna, *96.
Ribs: partial costectomy as a cosmetic operation in scoliosis, *521.
Ring arthroplasty of hip
and bone pain, 875.
problems of the uncemented total hip replacement, 209.
Road accidents. *See* Accidents, traffic.
Robertson, Ivor Murray (*obituary*), 418.
Royal Australasian College of Surgeons: resolutions of 2nd Road Traffic Seminar, 1972, 656.
Royal College of Surgeons of England
Robert Jones lecture, 1972, 218.
Sims Commonwealth Travelling Professorship, appointment of R. B. Salter to, 668.

S

Sacrum
anterior sacral meningocele occurring in a family, *331.
extradural cysts of, *20.
Salter, Robert B., appointed Sims Commonwealth Professor for 1973, 668.
Sarcoma
See also specific terms, and under structures involved.
induction in rats by wear particles generated by cobalt-chrome total joint replacement prostheses, 424, *759.
post-radiation, in ankylosing spondylitis, *183.
Savill, Douglas Leslie (*obituary*), 871.
Scaphoid bone (tarsal). *See* Navicular bone.
Scapula
congenital elevation of, 441.
osteotomy, paraglenoid, for recurrent posterior dislocation of shoulder, 662.
snapping, and subscapular exostoses, *345.
Sciatica
See also Intervertebral disc lesions.
due to sacral extradural cysts, *20.
recalcitrant: access to ilio-lumbar angle for root clearance and unilateral lateral spine fusion, 440.
surgical treatment for derangement of lumbar spine, *7.
Scintiscanning. *See* Radioisotope scanning.
Scoliosis
congenital
— classification and treatment, 665.
— diastematomyelia complicating, 431.
experimental, induced by spinal pacemakers, 232.
idiopathic
— metabolic activity of iliac crest growth plate in, 428.
— oestrogen excretion in, 428.
in Singapore, 235.
in spina bifida, 223.
rotational deformity in, radiographic estimation of, *513.
Scoliosis (*continued*):
treatment
— halo-pelvic traction in surgical management in adults, 232.
— Harrington instrumentation, with modification, 431.
— in adults, 665.
— partial costectomy as a cosmetic operation, *521.
— spinal pacemakers, 232.
Screws, bone, mechanical factors influencing their holding power in compact bone, *633.
Serpentine foot. *See* Metatarsus adductus varus.
Shiers arthroplasty of knee: laboratory tests on the prosthesis, *759.
Shoulder
See also Acromio-clavicular joint.
See also Clavicle; Scapula.
arthroplasty, total replacement, in rheumatoid arthritis, 217.
dislocation
— posterior, 441.
— — recurrent, 662.
— recurrent, treatment, 228.
— — Bristow operation, 880.
— — repair using a pull-out wire technique, 666.
tumours: extra-abdominal desmoids, multicentric, *858.
Silicones: silicone implant arthroplasty of carpo-metacarpal joint of thumb, *285.
Simpson, D. C., appointed to personal chair in orthopaedic bio-engineering, University of Edinburgh, 652.
Sims Commonwealth Travelling Professorship, appointment of R. B. Salter to, 668.
Singapore Orthopaedic Association, 1st combined meeting with Malaysian Orthopaedic Association, 1971, 234.
Smaill, Graeme Ballantyne (*obituary*), 420.
Smith's fracture, Ellis plate operation for, *173.
Somatotropin. *See* Growth hormone.
South Africa: appointment of I. S. de Wet to Chair of Orthopaedics, University of Pretoria, 437.
South African Orthopaedic Association, annual congress, 1972, 437.
Spastic flat foot, inheritance of, 428, 881.
Spastic paralysis
See also Cerebral palsy.
flexion deformities of hand and wrist in, transfer of flexor digitorum superficialis to profundus for, 664.
surgery on spinal cord for spasticity, 232.
Spina bifida
foot in:
— calcaneus deformity, treatment, operative, 438.
— plantar pressures in, *828.
— vertical talus, surgical management of, 876.
hip dislocation in, use of splintage in management of, *163.
hip instability in, 661.
spinal deformity in, 223.
Spinal accessory nerve injury complicating surgery, 232.
Spinal cord
blood supply, 439.
paralysis. *See* Paraplegia; Tetraplegia.
surgery for spasticity, 232.
Spinal muscular atrophy, orthopaedic management of, 663.
Spinal stenosis, lumbar, *16, 435, *506.
Spine
See also Intervertebral discs; Sacrum.
arthrodesis
— anterior, for infective lesions in adults, *715.
— atlanto-axial, *482.
— — for atlanto-axial fracture-dislocations, failure of, *490.

* Indicates full article or appreciable part.

Spine
arthrodesis (*continued*):
— lumbar, *7.
— — lateral, unilateral, for recalcitrant sciatica and backache, 440.
blood supply: venous drainage of the human vertebral body, *528.
Calvé's disease of. *See* Vertebra plana.
cervical
— congenital abnormalities in atlanto-occipital region, 223.
— injuries
— — atlanto-axial fracture-dislocations: failure of posterior C.1 to C.2 fusion, *490.
— — fractures with minimal or no symptoms, 236.
— instability
— — atlanto-axial (*editorial*), 456.
— — — atlanto-axial arthrodesis for, *482.
— — upward translocation of dens in rheumatoid arthritis, *471.
— rheumatoid, 665.
— — neurological complications following involvement of atlanto-axial complex, 217.
— subluxation, atlanto-axial
— — in Morquio syndrome, *478.
— — in rheumatoid arthritis, *458.
cysts, extradural, sacral, *20.
deformities
— *See also* Kyphosis; Scoliosis.
— in spina bifida, 223.
infections
— *See also* Spine tuberculosis.
— diagnosis, 229.
— — scintigraphy with fluorine-18 and strontium-87m, *301.
— disc space infection
— — cervical, 232.
— — complicating disc surgery, 435.
— in adults, anterior fusion of spine for, *715.
— pyogenic, occurring primarily in intervertebral discs, *698.
injuries
— *See also under* Spine, cervical.
— lumbar flexion distraction fractures, 662.
— stable fractures of thoracic and lumbar vertebral bodies, long-term consequences of, *295.
lumbar
— derangement of, surgical treatment for, *7.
— stenosis of spinal canal, *16, 435, *506.
— structure of pars interarticularis and its relation to etiology of spondylolysis, *735.
— surgery, knee-chest position for, problems associated with, *279.
osteochondritis juvenilis. *See* Vertebra plana.
tuberculosis
— correction of kyphosis in, 211.
— diagnosis, 229.
— — scintigraphy with fluorine-18 and strontium-87m, *301.
— in adults, anterior fusion of spine for, *715.
— treatment: controlled trial of ambulant out-patient treatment and in-patient rest in bed in young Koreans on standard chemotherapy, *678.
tumours
See also Spine cysts.
— fibrosarcoma, post-radiation, in ankylosing spondylitis, *183.
— haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
— malignant, extradural, paraplegia due to, results of laminectomy for, *497.
— osteoblastoma, benign, recurrent, of second thoracic vertebra, *841.

Splints. *See* Orthopaedic appliances.
Spondylitis
ankylosing, post-radiation sarcoma in, *183.
infective. *See* Spine infections.
Spondylolisthesis
new clinical test, 229.
treatment, operative, *7.
Spondylolysis, etiology, relation to structure of pars interarticularis, *735.
Spondylosis, cervical, 442.
Spring implant operation, 883.
Stapling, epiphysial, for genu valgum, 667.
Sterno-mastoid tumour, 235.
Steroids, adrenocortical
influence of cortisone on bone and cartilage induction in various animals, *595.
influence on normal and papain-treated articular cartilage in rabbit, *197.
therapy with
— arthropathy and necrosis of femoral head complicating, *246.
— effect on wound healing, 128, *134.
Stevens, Jack, appointed to Chair of Orthopaedics, University of Newcastle upon Tyne, 219.
Streptomycin in conservative treatment of tuberculosis of spine: controlled trial, *678.
Strontium-87m scintigraphy in management of infective spondylitis, *301.
Sudeck's atrophy: Sudeck-like condition at hip and knee in pregnancy, 441.
Sulphur-35, autoradiographic study with: influence of corticosteroids on normal and papain-treated articular cartilage in rabbit, *197.
Surgery, orthopaedic: "on the value of doing nothing or virtually nothing", 213.
Surgical implants
See also Metallic implants.
spring implant operation, 883.
total joint replacement prostheses, laboratory tests on, *759.
Surgical wounds
healing of, in rheumatoid arthritis, 128, *134.
infection of
— in disc surgery, 435.
— in hip arthroplasty, total replacement, 664.
Swanson arthroplasty of rheumatoid hand, 664.
Syme's amputation, 666, 884.
two-stage, for diabetic vascular disease, 434.
Symphysis pubis
disruption of, plate fixation for, *618.
gracilis syndrome, 662.
Synostosis, congenital, tarsal, inheritance of, and relationship to spastic flat foot, 428, 881.
Synovectomy
chemical: effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
of elbow in rheumatoid arthritis, *106.
of knee
— anterior, for popliteal cysts in rheumatoid arthritis, *119.
— in rheumatoid arthritis, 215.
— — long-term follow-up, *786.
Synovial cysts
See also Ganglia.
popliteal, in rheumatoid arthritis, treatment of, *119.

T

Talipes. *See* Club foot.
Talus
abnormality of, in congenital club foot, *796.
fractures of dome of, *319.
vertical, congenital
— digito-talar dysmorphism, 439.

* Indicates full article or appreciable part.

Talus
vertical, congenital (*continued*):
— morphology of, 428.
— treatment, operative, *566.
vertical, paralytic, in spina bifida, surgical management of, 876.
Tarso-epiphysial aclasis, 662.
Tarso-metatarsal joints, dislocation of, 666.
Tarsus
See also specific tarsal bones.
arthrodesis, triple, 439.
coalition, inheritance of, and relationship to spastic flat foot, 428, 881.
Television: quantitative colour television image analyser in measurement of bone density, *359.
Tendons
See also specific tendons, and under regional headings.
vascular anatomy within normal tendons, divided tendons, free tendon grafts and pedicle tendon grafts in rabbits, *369.
Tennis elbow, resistant, as a nerve entrapment, 435.
Tenodesis of flexor hallucis longus for clawing of hallux, 879.
Tetracyclines, bone labelling with, in experimental studies: osteogenesis in the osteoarthritic femoral head, *262.
Tetraplegia due to atlanto-axial subluxation in Morquio syndrome, *478.
Thomas, Hugh Owen, Memorial Lecture, Liverpool Medical Institution, 1973, 652.
Thorax. *See also* Intercostal muscles; Ribs.
Thromboembolism
after fracture of femoral neck, prophylaxis by low-dosage heparin, 213.
prophylaxis by dextran, 661.
Thumb
carpo-metacarpal joint of
— arthrodesis of, *292.
— arthroplasty of, by silicone prosthesis, *285.
— osteoarthritis of, excision of trapezium for: review after 25 years, *56.
congenital aplasia or hypoplasia, 37.
reconstruction: pollicisation, 32.
sensibility restoration by neurovascular flaps, 226.
Thymidine, tritiated, autoradiographic study with: chondrocyte multiplication in osteoarthritic articular cartilage, *588.
Thyroid gland, role in fracture healing, 442.
Tibia
congenital aplasia or hypoplasia, with diplopodia, *604.
fractures
— non-union of, Küntscher medullary reaming and nail fixation for, *312.
— oedema after, relation to soft-tissue lymphatic drainage, 877.
— of upper end of, in children, valgus deformity after, 222.
— refracture after, in adults, 878.
— segmental, 878.
— treatment: comparison of long leg plaster and compression plating for closed fractures in adults, 878.
— with fracture of femur in same limb; results of conservative treatment, 212.
lengthening of, surgical: improved method, 435.
osteotomy at upper end of, with lower femoral osteotomy, for arthritis of knee, 433.
pseudarthrosis, infantile, resection osteosynthesis and Boyd amputation for, *179.
tumours: chondroblastoma with pulmonary metastases, *848.
Tibial nerve, effects of stretching on, in rabbit, *390.
Tibialis anterior transfer for congenital vertical talus, *566.
Tissue typing and "spare part" surgery, 880.
Toe(s)
clawed
— in rheumatoid arthritis, arthroplasty of forefoot for, *126.
— paralytic: flexor hallucis longus tenodesis for clawing of hallux, 879.
great, deformities of. *See* Hallux valgus.
Torticollis, muscular, 235.
as an intra-uterine postural deformity, 877.
association with congenital dysplasia of hip, 665.
Tourniquets, paralysis due to, 432.
Traction, halo-pelvic
in correction of kyphosis, 211.
in surgical management of adult scoliosis, 232.
Traffic accidents. *See under* Accidents.
Training. *See* Education.
Transplantation: tissue typing and "spare part" surgery, 880.
Trapezio-metacarpal joint. *See* Carpo-metacarpal joint of thumb.
Trapezium, excision of, for osteoarthritis of trapezio-metacarpal joint: review after 25 years, *56.
Trauma. *See* Accidents; Fractures; Injuries; *and under structures involved.*
Triceps brachii: tricepsplasty and triceps transfer in arthrogryposis, *834.
Trigeminal nerve involvement in rheumatoid arthritis, 463, 474.
Triple arthrodesis, 439.
Tritiated proline, autoradiographic study with: effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
Tritiated thymidine, autoradiographic study with: chondrocyte multiplication in osteoarthritic articular cartilage, *588.
Trophic ulcers. *See under* Ulcers.
Tuberculin sensitivity in rheumatoid arthritis, 428.
Tuberculosis of spine
correction of kyphosis in, 211.
diagnosis, 229.
— scintigraphy with fluorine-18 and strontium-87m, *301.
in adults, anterior fusion of spine for, *715.
treatment: controlled trial of ambulant out-patient treatment and in-patient rest in bed in young Koreans on standard chemotherapy, *678.
Tumours
See also Cysts; Ganglia.
See also specific terms, and under structures involved.
effect of elevated tissue temperatures on an experimental muscle tumour, 654.
malignant, induction in rats by wear particles generated by cobalt-chrome total joint replacement prostheses, 424, *759.
of lower limb, amputation for, immediate prosthetic fitting after, 434.

U

Uganda, poliomyelitis undefeated in, 232.
Ulcers, trophic, of foot: plantar pressures in healthy children and in children with myelomeningocele, *828.
Ulna
defects of, in children, treatment by establishing cross-union with radius, *327.
fractures. *See also* Forearm fractures.
resection of lower end of (Darrach operation) in rheumatoid arthritis, *96.
Ulnar nerve
compression at elbow, 227.
compression in wrist and hand, 227.

* Indicates full article or appreciable part.

Ulnar nerve (*continued*):
paralysis, intrinsic, in leprosy, extensor diversion graft for, *58.
University of . . . *See inverted form of name.*
Urogenital system, anomalies of, associated with anterior sacral meningocele, 331.

V

Vascular . . . *See also* Arteries; Ischaemic necrosis; Thrombo-embolism.
Vascular disease of lower limb in the diabetic, orthopaedic management of, 434, 882.
Vascular tumours
haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
haemangiopericytoma of bone, primary, *854.
Venous thrombosis
See also Thromboembolism.
prophylaxis by dextran, 661.
Vertebra plana, 236, 550.
Veterinary medicine: conditions affecting the hip joint in young animals, 877.
Volkmann's ischaemia in lower limb: anterior tibial syndrome, 666.

W

Walldius arthroplasty of knee: laboratory tests on the prosthesis, *759.
Watson-Jones, Sir Reginald
obituary, 418.
portrait (marking 25th anniversary of British volume of the *Journal*), *facing* 3.
— presented to Lady Watson-Jones, 650.
Wet, I. S. de. *See* De Wet, I. S.
Whiston, Thomas Barret (*obituary*), 872.
White, William Frame (*obituary*), 419.
Wilson, John Dennis (*obituary*), 208.
Wound(s)
healing after surgery of rheumatoid arthritis, 128, *134.
surgical, infection of
— in disc surgery, 435.
— in hip arthroplasty, total replacement, 664.
Wrist
See also Carpo-metacarpal joints.
deformities: Madelung's, 233.
rheumatoid
— deformities of, and their relation to ulnar drift, 233, 664.
— surgery of: excision of distal end of ulna, *96.
ulnar nerve compression at, 227.

Y

Yau, Arthur, appointed to personal chair in orthopaedic surgery, University of Hong Kong, 887.

* Indicates full article or appreciable part.

CONTRIBUTORS—NOVEMBER 1973

H. M. Barber, Esq., F.R.C.S., Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD, England.
Dr J. E. Beltran, Servicio de Cirugia del Aparato Locomotor, Ciudad Sanitaria "Principes de Espana", Barcelona, Spain.
J. G. Bonnin, Esq., F.R.C.S., 3 Upper Wimpole Street, London W1M 7TA, England.
Neil A. Bromberger, Esq., F.R.A.C.S., Austin Hospital, Heidelberg, Victoria, Australia.
I. D. Brown, Esq., F.R.C.S., The Queen Elizabeth Hospital for Children, Hackney Road, London E2 8PS, England.
John E. Buck, Esq., F.R.C.S., Brook General Hospital, Shooters Hill Road, London SE18 4LW, England
Dr Peter G. Bullough, The Hospital for Special Surgery, New York, N.Y., United States of America.
R. C. F. Catterall, Esq., M.Chir., F.R.C.S., Heath House, Headley, Epsom, Surrey, England.
John Chalmers, Esq., F.R.C.S., Princess Margaret Rose Orthopaedic Hospital, Fairmilehead, Edinburgh EH10 7ED, Scotland.
Roger G. Checketts, Esq., M.D., F.R.C.S., University Department of Orthopaedics, Western Infirmary, Glasgow, Scotland.
Dr F. Collado Herrero, Herzegovino 15, Barcelona, Spain.
Dr Josephine Cook, Ph.D., D.C.H., Royal National Orthopaedic Hospital, 234 Great Portland Street, London W.1, England.
Dr P. W. Cooper, F.R.C.P.(C), Department of Radiology, Sunnybrook Hospital, 2075 Bayview Avenue, Toronto, Ontario, Canada.
Professor B. Cruickshank, M.D., F.R.C.Path., Department of Pathology, Sunnybrook Hospital, 2075 Bayview Avenue, Toronto, Ontario, Canada.
Dr S. Dekel, Ichilov Hospital, Tel-Aviv, Israel.
T. Duckworth, Esq., F.R.C.S., Department of Orthopaedics, The Royal Infirmary, Sheffield S6 3DA, England.
Dr James Dunlop, M.B.B.S., F.R.C.S.(C), Suite 406, Westminster Medical Building, 625 5th Avenue, New Westminster, British Columbia, Canada.
Professor R. B. Duthie, M.A., Ch.M., F.R.C.S., F.A.C.S., Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD, England.
M. A. R. Freeman, Esq., M.D., F.R.C.S., Mechanical Engineering Department, Imperial College, London S.W.7, England.
C. S. B. Galasko, Esq., Ch.M., F.R.C.S., F.R.C.S.E., Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD, England.
S. D. Gertzbein, Esq., M.D., F.R.C.S.(C), Division of Orthopaedic Surgery, Sunnybrook Hospital, 2075 Bayview Avenue, Toronto, Ontario, Canada.
John Goodfellow, Esq., F.R.C.S., Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD, England.
James Graham, Esq., F.R.C.S.(Glas.), F.R.C.S.(Ed.), University Department of Orthopaedic Surgery, Western Infirmary, Glasgow, Scotland.
A. J. Hall, Esq., F.R.C.S., Royal National Orthopaedic Hospital, Brockley Hill, Stanmore, Middlesex, England.
Michael Aiden Hannon, Esq., F.R.C.S., Royal National Orthopaedic Hospital, Brockley Hill, Stanmore, Middlesex, England.
Alan G. Hardy, Esq., M.B.E., B.M., F.R.C.S., Spinal Injuries Unit, Lodge Moor Hospital, Sheffield S10 4LH, England.
Malcolm C. Hay, Esq., F.R.C.S., Royal Perth Hospital, Box X 2213, G.P.O. Perth, Western Australia.
J. C. Heath, Esq., B.Sc., F.I.Biol., Cancer Campaign Research Grant, Strangeways Research Laboratory, Wort's Causeway, Cambridge CB1 4RN, England.
H. Hoffman, Esq., M.D., F.R.C.S.(C), 123 Edward Street, Toronto 2, Ontario, Canada.
J. W. Jackson, Esq.. M.Ch., F.R.C.S., Royal National Orthopaedic Hospital, 123 Great Portland Street, London W.1, England.
J. D. Jeremiah, Esq., F.R.C.S., Whipps Cross Hospital, Walthamstow, London, England.
H. B. S. Kemp, Esq., M.S., F.R.C.S.E., Royal National Orthopaedic Hospital, 123 Great Portland Street, London W.1, England.
Dr J. Krenz, M.D., Orthopädische Universitätsklinik und Poliklinik, Hüfferstiftung, 44 Münster, Hüfferstrasse 27, West Germany.
Dr C. A. Laurin, M.D., F.R.C.S.(C), Hotel Dieu Hospital, Montreal, Quebec, Canada.
G. C. Lloyd-Roberts, Esq., M.Ch., F.R.C.S., The Hospital for Sick Children, Great Ormond Street, London WC1N 3JH, England.
Dr C. J. Louis, M.B., B.S., Ph.D., M.R.C.Path., Acting Professor of Pathology, Austin Hospital (University of Melbourne) Heidelberg, Victoria, 3084, Australia.
Lester Warner Lowe, Esq., M.B., F.R.C.S., F.R.C.S.Ed., Northwick Park Hospital and Clinical Research Centre, Harrow, Middlesex, England.
Medical Research Council Working Party on Tuberculosis of the Spine, M.R.C. Tuberculosis and Chest Diseases Unit, Brompton Hospital, Fulham Road, London SW3 6HP, England.
Professor Brian McKibbin, M.D., F.R.C.S., Department of Traumatic and Orthopaedic Surgery, Welsh National School of Medicine, Cardiff, Wales.
Dr Nelson Mitchell, M.D., F.R.C.S.(C), Royal Victoria Hospital, 687 Pine Avenue West, Montreal 112, P.Q., Canada.
P. H. Newman, Esq., D.S.O., M.C., F.R.C.S., 107 Harley Street, London W1N 1DG, England.
Dr J. J. O'Connor, Department of Engineering Science, Oxford University, Oxford, England.
Dr L. G. C. E. Pugh, Laboratory for Field Physiology, National Institute for Medical Research, Holly Hill, London N.W.3, England.
Dr Z. Ralis, Department of Traumatic and Orthopaedic Surgery, Welsh National School of Medicine, Cardiff, Wales.
A. H. C. Ratliff, Esq., Ch.M., F.R.C.S., 2 Clifton Park, Bristol BS8 3BS, England.
Dr Jørgen Reimers, Orthopaedic Department U., Rigshospitalet, 2100—Copenhagen Ø, Denmark.
Dr R. J. Riddell, D.T.M.& H., M.R.C.P.A., Director of Anatomical Pathology, Austin Hospital, Heidelberg, Victoria, 3084, Australia.
Dr D. G. Shaw, M.A., M.R.C.P., F.F.R., The Queen Elizabeth Hospital for Children, Hackney Road, London E2 8PS, England.
Dr Nora Shepard, Royal Victoria Hospital, 687 Pine Avenue West, Montreal 112, P.Q., Canada.
Professor H. A. Sissons, F.R.C.Path., Department of Morbid Anatomy, Institute of Orthopaedics, Royal National Orthopaedic Hospital, 234 Great Portland Street, London W1N 6AD, England.
Dr S. A. V. Swanson, Ph.D., B.Sc.(Eng.), Mechanical Engineering Department, Imperial College, London S.W.7, England.
G. A. Taylor, Esq., M.D., F.R.C.S.(C), Department of Surgery, Sunnybrook Hospital, 2075 Bayview Avenue, Toronto, Ontario, M4N 3M5, Canada.
Dr J. D. G. Troup, Ph.D., M.R.C.S., L.R.C.P., Dawn Trust Unit for Spinal Research, Institute of Orthopaedics, Brockley Hill, Stanmore, Middlesex HA7 4LP, England.
Dr J. Vila Brichs, Muntaner 530 bis, Barcelona, Spain.
Dr Hanan Waisbrod, Head, Orthopaedic Department, Poria Hospital, Tiberias, Israel.
Geoffrey Walker, Esq., F.R.C.S., Queen Mary's Hospital for Children, Carshalton, Surrey, England.
Professor S. L. Weissman, M.D., Ichilov Hospital, Tel-Aviv, Israel.
Peter F. Williams, Esq., F.R.C.S., F.R.A.C.S., Chief Orthopaedic Surgeon, Royal Children's Hospital, Melbourne, Australia.
Dr C. G. Woods, B.Sc., M.B., B.Ch., M.R.C.Path., Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD, England.
Dr Joan F. Zilva, F.R.C.P., M.R.C.Path., Department of Chemical Pathology, Page Street Wing, Westminster Medical School, London S.W.1, England.

AUTHOR INDEX

A

Abdulla, A., *with* **Grogono, B. J., and Woodbury, J.** Clinical radiological and correlated study of cervical spine in rheumatoid arthritis, 665.
Adams, I. D. Osteoarthrosis of the knee joint in footballers, 655.
Addison, J. R. John Dennis Wilson (*obituary*), 208.
Alexander, J. P. Problems associated with the use of the knee-chest position for operations on lumbar intervertebral discs, *279.
Ali, S. Y., *with others*. A new method for studying the metabolic activity of the iliac crest growth-plate: its relevance to scoliosis, 428.
Alldred, A. J. Fat embolism, 436.
Allnan, J. G. A follow-up of neuro-vascular flaps (*discussion*), 226.
Alms, M. Pedicle tendon graft for flexor tendon injuries of the fingers, 881.
Ansell, B. M., *with* **Wilson, D. W., and Arden, G. P.** Synovectomy of the elbow in rheumatoid arthritis, *106.
Apley, A. G. George Perkins (*editorial*), 4.
Arden, G. P., *with* **Kamdar, B. A.** Küntscher nail for fractured femoral shaft, 882.
with **Roles, N. C.** Synovectomy of the knee in rheumatoid arthritis, 215.
with **Wilson, D. W., and Ansell, B. M.** Synovectomy of the elbow in rheumatoid arthritis, *106.

B

Baker, G. W. Thomas Barrett Whiston (*obituary*), 872.
Ball, J. *Book review*, 240.
Barber, H. M., *with* **Galasko, C. S. B., and Woods, C. G.** Multicentric extra-abdominal desmoid tumours, *858.
Barltrop, D. Interaction of lead with mammalian tissues, 423.
Barnes, R. A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thrombo-embolism in patients with fractured femoral necks (*discussion*), 213.
Barnett, M., *with* **Wiley, A. M.** Swanson arthroplasty of the rheumatoid hand—the result of treatment, 664.
Barrington, T. The combined Campbell Roux-Goldthwait procedure for recurrent subluxation and dislocation of the patella (*discussion*), 667.
with others. A rationale for the post-operative management of post-meniscectomy patients, 667.
Barrington, T. W. Cervical disc space infection, 232.
Barry, H. C. Sir Reginald Watson-Jones (*obituary*), 418.
Barton, N. J. Arthroplasty of the forefoot in rheumatoid arthritis, *126.
Bates, E. H. The early diagnosis of Duchenne dystrophy, 226.
Bates, W. The role of iliopsoas recession in the management of spastic hip flexion deformity (*discussion*), 661.
Beasley, A. W. The knee in prosthetics, 434.
Beaupré, A., *with* **Carroll, N.** Iliac osteomyelitis simulating lumbar disc syndrome, 662.
Bedbrook, G. M. The cauda equina syndrome (*discussion*), 435.
Results of programmes of total management in paraplegia, 437.
Beddow, F. H. Küntscher nail for fractured femoral shaft (*discussion*), 882.
Beetham, R. Orthopaedic training programme in Indonesia, 219.
Osteotomy of the femur in the management of osteoarthritis of the hip, 225.
Beighton, P. H., *with* **Craig, J.** Atlanto-axial subluxation in the Morquio syndrome, *478.
with **Sallis, J. G.** Digito-talar dysmorphism: a new entity, 439.
with **Solomon, L.** Osteoarthrosis of the hip and its relationship to pre-existing disorders in an African population, 216.
Bell, M. Proximal hamstring release—anterior approach, 661.
Beltrán, J. E., *with* **Collado, F., and Vila, J.** Condylo-cephalic nail fixation for trochanteric fractures of the femur, *774.
Bendeich, G. J. Ulnar nerve compression in the wrist and hand, 227.
Benjamin, A. Early results in geometric total knee arthroplasty (*discussion*), 874.
The scientific basis for innominate osteotomy in the treatment of Legg-Perthes' disease (*discussion*), 216.
Bentley, G. A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thrombo-embolism in patients with fractured femoral necks (*discussion*), 213.
Transplantation of isolated chondrocytes into joint surfaces, 209.
with **Fearn, C. B. D'A., and Burbidge, H. C.** Effect of methyl methacrylate cement on systolic blood pressure in operations for total hip replacement, 210.
with **Rothwell, A. G.** Chondrocyte multiplication in osteoarthritic articular cartilage, *588.
Best T. N. Valgus deformity after fracture of the upper tibia in children, 222.
Bigelow, D. R. The surgical solution to the swan neck deformity of rheumatoid arthritis, 665.
Blair, H. A. F., *with* **Young, M. H.** Oestrogen excretion in adolescent idiopathic scoliosis, 428.
Blockey, N. J. "On the value of doing nothing or virtually nothing", 213.
Blunden, R. Less radical surgery in peripheral vascular disease (*discussion*), 434.
Traumatic dislocation of the hip, 429.
Bobechko, W. P. Spinal pacemakers in scoliosis, 232.
with **Casey, B. H., and Hamilton, H. W.** Acute slip of the upper femoral epiphysis, 430.
Bonney, G. *Book review*, 672.
Bonnin, J. G. The bicentenary of Abraham Colles, 1773–1843 (*editorial*), 452.
Book reviews, 240, 446, 890.
Booz, M. K. A. Y. Subcapital fracture types and osteomalacia and vitamin D deficiency (*discussion*), 882.
Bracken, B. C. Hip flexion deformity in spastic cerebral palsy, 430.
Bromberger, N. A. Supracondylar fractures of the humerus in children, 222.
with **Riddell, R. J., and Louis, C. J.** Pulmonary metastases from chondroblastoma of the tibia, *848.
Brookes, M. Physico-chemical control of bone growth, 428.
Brooks, B., *with* **Włodarski, K., and Hancox. N. M.** The influence of cortisone and implantation site on bone and cartilage induction in various animals, *595.

* Indicates full article.

Brooks, D. *Book reviews*, 242.
Brown, I. D., *with* **Shaw, D. G.** Multiple osteochondroses of the feet in a West Indian family, *864.
Brown, T. S., *with* **Paterson, C. R.** Osteosclerosis in myeloma, *621.
Bryan, R. S., *with* **Combs, J. C.,** *and* **Peterson, L. F. A.** Preliminary report on the polycentric total knee arthroplasty, 668.
Buck, J. E. *Book review*, 893.
Bucknill, T., *with others*. Haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
Buick, R. J. W., *with* **Segil, C. M., and Simmons, E. H.** The localisation of symptomatic levels in discogenic disease of the spine, 665.
Bullough, P., *with* **Goodfellow, J., and O'Connor, J.** The relationship between degenerative changes and load-bearing in the human hip, *746.
Bulos, S. Herniated intervertebral lumbar disc in the teenager, *273.
Bultitude, F. W. *Discussion*, 427.
Burbidge, H. C., *with* **Fearn, C. B. D'A., and Bentley, G.** Effect of methyl methacrylate cement on systolic blood pressure in operations for total hip replacement, 210.
Burgess, E. M., *with* **Marsden, F. W.** Amputations for tumour—the use of the Seattle immediate post-operative prosthetic fitting technique, 434.
Burrows, H. J. *Book review*, 238.
Burwell, R. G. Tissue typing and "spare part" surgery (*discussion*), 880.
with **Salama, R., and Dickson, I. R.** Recombined grafts of bone and marrow, *402.
with others. A new method for studying the metabolic activity of the iliac crest growth-plate: its relevance to scoliosis, 428.
Butt, W. The localisation of symptomatic levels in discogenic disease of the spine, 665.
Byers, P. D., *with* **Foss, M. V. L.** Bone density and osteoarthritis, 212.

C

Calma, I., *with* **Roaf, R.** Activity and function of the intercostal muscles: an electromyographic investigation, 653.
Calnan, J. S., *with* **Dickson, R. A., and Paice, F.** The quantitative colour television image analyser, *359.
Cameron, H. The surgical significance of radiological changes in osteoarthritis of the hip joint, 660.
Carroll, N. C. Hip instability in patients with myelomeningocele, 661.
with **Beaupré, A.** Iliac osteomyelitis simulating lumbar disc syndrome, 662.
Carroll, R. E., *with* **Hill, N. A.** Arthrodesis of the carpo-metacarpal joint of the thumb, *292.
Casey, B. H., *with* **Hamilton, H. W., and Bobechko, W. P.** Acute slip of the upper femoral epiphysis, 430.
Castro, A. de. *See* de Castro, A.
Casuccio, C. Long-term results of closed treatment of congenital dislocation of the hip, 438.
Catterall, R. C. F. *Editorial*, 677.
Orthopaedic management of foot breakdown in the diabetic patient (*discussion*), 882.
Chacha, P. B., *with* **Khong, B. T.** Eosinophilic granuloma of bone, 236.
with **Pillay, V. K.** Scoliosis in Singapore, 235.
Chalmers, J. *Book reviews*, 444, 888, 892.
Subcapital fracture types and osteomalacia and vitamin D deficiency (*discussion*), 882.
Chaplin, D. M. The vascular anatomy within normal tendons, divided tendons, free tendon grafts and pedicle tendon grafts in rabbits, *369.
Chapman, K. W., *with* **Frankel, V. H.** Rotational deformity of both bones following forearm fractures, 666.
Charnley, J. Problems of the uncemented total hip replacement (*discussion*), 209.
Checketts, R. G. A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thrombo-embolism in patients with fractured femoral necks (*discussion*), 213.
with **Graham, J.** Synovectomy of the knee joint in rheumatoid arthritis, *786.
Cheong-Leen, P., *with* **Walker, G. F.** The surgical management of paralytic vertical talus in myelomeningocele, 876.
Cholmeley, J. A. *Book review*, 675.
Christensen, N. O. Küntscher intramedullary reaming and nail fixation for non-union of fracture of the femur and the tibia, *312.
Clark, R. C., *with* **Lloyd-Roberts, G. C.** Ball and socket ankle joint in metatarsus adductus varus, *193.
Clough, J. R. Segmental fractures of the shaft of the tibia, 878.
Cole, P. V., *with* **Phillips, H., and Lettin, A. W. F.** Cardiovascular effects of implanted acrylic cement, 210.
Coleman, R. F. Concentration of implant corrosion products in the body, 422.
Collado, F., *with* **Vila, J., and Beltrán, J. E.** Condylocephalic nail fixation for trochanteric fractures of the femur, *774.
Colles, A. On the fracture of the carpal extremity of the radius (*reprint*), 454.
Collins, J. J. Ulnar compression neuritis at the elbow, 227.
Colliou, L., *with* **Uhthoff, H. K., and Soucy, D.** Repair of recurrent dislocation of the shoulder using a pull-out wire technique, 666.
Colton, C. L. The surgical management of congenital vertical talus, *566.
Colvin, G. S. An improved method of tibial leg lengthening, 435.
Combs, J. C., *with* **Bryan, R. S., and Peterson, L. F. A.** Preliminary report on the polycentric total knee arthroplasty, 668.
Cook, J., *with others*. Anterior fusion of the spine for infective lesions in adults, *715.
Cook, R. W. *Discussion*, 427.
Cooper, P. W., *with others*. Recurrent benign osteoblastoma of the second thoracic vertebra, *841.
Coutts, R. D., *with others*. Observations on fracture healing, 214.
Coventry, M. B. Early results in geometric total knee arthroplasty, 874.
Segmental fractures of the shaft of the tibia (*discussion*), 878.
Cox, P. T., *with* **Walder, D. N.** Experimental embolic bone necrosis, 655.
Craig, J., *with* **Beighton, P.** Atlanto-axial subluxation in the Morquio syndrome, *478.
Crellin, R. Q., *with* **Jones, E. R.** Sacral extradural cysts, *20.
Critchley, J. E. Bony anomalies in the atlanto-occipital region, 223.
Crock, H. V. The cauda equina syndrome (*discussion*), 435.
Drilling of the subchondral bone plate for osteoarthritis of the knee, 226.
with **Yoshizawa, H., and Kame, S. K.** Observations on the venous drainage of the human vertebral body, *528.

* Indicates full article.

Cromack, P. I. Experience with the Garden nail in the treatment of fractures of the neck of the femur, 429.
Cruess, R. Knock knees with special reference to the stapling operation (*discussion*), 667.
Cruickshank, B., *with others.* Recurrent benign osteoblastoma of the second thoracic vertebra, *841.

D

Dall, G. Long-term results of closed treatment of congenital dislocation of the hip (*discussion*), 438.
Davis, L., *with others.* Observations on fracture healing, 214.
Daymond, K. R. An improved method of tibial leg lengthening (*discussion*), 435.
Operative treatment of scoliosis by the Harrington method with modification, 431.
The short leg, 223.
de Castro, A., *with* **Salter, R. B.** The role of iliopsoas recession in the management of spastic hip flexion deformity, 661.
Dee, R. Metallic hinge arthroplasty in the rheumatoid elbow (*discussion*), 874.
Dekel, S., *with* **Weissman, S. L.** Osteotomy of the calcaneus and concomitant plantar stripping in children with talipes cavo-varus, *802.
de la Fuente, A. A., *with* **Sybrandy, S.** Multiple giant-cell tumour of bone, *350.
Denham, R. A. The Ring replacement operation and bone pain, 875.
Desjardins, P., *with others.* Functional anatomy of the ankle joint and its relationship to ankle injuries, 662.
Devas, M. B. Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella (*discussion*), 876.
Dewar, F. P., *with* **Rathbun, J. B.** Oblique transposition osteotomy of the first metatarsal for adolescent hallux valgus, 663.
Dewey, P. The posterior interosseous nerve and resistant tennis elbow, 435.
Dickson, I. R., *with* **Salama, R., and Burwell, R. G.** Recombined grafts of bone and marrow, *402.
Dickson, R. A., *with* **Paice, F., and Calnan, J. S.** The quantitative colour television image analyser, *359.
Dingle, J. T. The role of lysosomal enzymes in skeletal tissues, *87.
Doig, W. G. The amputee clinic at the Royal Children's Hospital, Melbourne, 223.
Dommisse, G. F. The blood supply of the human spinal cord, 439.
Dooley, B. J. Acute slip of the upper femoral epiphysis (*discussion*), 430.
Benign osteoblastoma, 434.
Drummond, D. Proximal hamstring release—anterior approach (*discussion*), 661.
Drury, R. *Book review*, 444.
Dubuc, F., *with others.* A study on sources of infection in the pre-operative period and during operation, 663.
Duckworth, T. *Book review*, 892.
with **Ralis, Z.** Morphology of vertical talus, 428.
Dunlop, J. Primary haemangiopericytoma of bone, *854.
Dunn, P. M. Congenital sternomastoid torticollis: an intra-uterine postural deformity, 877.
Durbin, F. C. Bristow repair in recurrent anterior dislocation of the shoulder (*discussion*), 880.
Chondrolysis of the hip (*discussion*), 214.
Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis (*discussion*), 217.
Duthie, R. B. *Book reviews*, 889, 892, 893.
du Toit, G. T. Repair of recurrent dislocation of the shoulder using a pull-out wire technique (*discussion*), 666.
Dwyer, F. C. The surgical management of paralytic vertical talus in myelomeningocele (*discussion*), 876.
Dykes, R. G. Distribution of congenital dislocation of the hip in Southland, 430.

E

Edgar, M. A., *with* **Robinson, M. P.** Post-radiation sarcoma in ankylosing spondylitis, *183.
Edvardsen, P. Resection osteosynthesis and Boyd amputation for congenital pseudarthrosis of the tibia, *179.
Edwards, D. H., *with* **Galasko, C. S. B., and Fearn, C. B. D'A.** A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thrombo-embolism in patients with fractured femoral necks, 213.
Edwards, G. E. The role of iliopsoas recession in the management of spastic hip flexion deformity (*discussion*), 661.
El Ghawabi, M. H. Fracture of the neck of the radius with medial displacement of the head, *647.
Elias, P. S. *Discussion*, 427.
Ellis, C. Are Syme's amputations worthwhile? (*discussion*), 666.
Ellis, J. *Book reviews*, 239, 241, 673.
Elves, M. W., *with others.* A new method for studying the metabolic activity of the iliac crest growth-plate: its relevance to scoliosis, 428.
Emery, I., *with* **Meachim, G.** A quantitative study of patello-femoral cartilage fibrillation in Liverpool necropsies, 655.
English, E. Recurrent posterior dislocation of the shoulder, 662.
Enslin, T. B. Access to the ilio-lumbar angle for root clearance and lateral fusion of the spine from one side only, 440.
Evans, D. C., *with others.* A rationale for the post-operative management of post-meniscectomy patients, 667.
Evans, D. L. Recurrent dislocation of the patella (*discussion*), 215.
Evans, J. A., *with* **Hastings, D. E., and Hewitson, W. A.** Rheumatoid wrist deformities and their relation to ulnar drift, 664.
Evans, J. G., *with others.* A rationale for the post-operative management of post-meniscectomy patients, 667.
Eyre-Brook, A. L. "Accident Flying Squad" (*discussion*), 875.
Amputations, prosthetics and orthotics (*presidential address*), 883.
Chondrolysis of the hip (*discussion*), 214.
Congenital dislocation of the hip between five and fifteen years, 438.
The place of surgery in the early treatment of lumbar disc lesions (*discussion*), 210.
Posterior dislocation of the shoulder, 441.
Triple arthrodesis (*discussion*), 439.

F

Fairbank, T. J. Happiness in medicine (Hugh Owen Thomas memorial lecture), 652.
Faithfull, D. K. Diastematomyelia complicating congenital scoliosis, 431.

* Indicates full article.

Fearn, C. B. D'A., *with* **Burbidge, H. C., and Bentley, G.** Effect of methyl methacrylate cement on systolic blood pressure in operations for total hip replacement, 210.
with **Galasko, C. S. B., and Edwards, D. H.** A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thromboembolism in patients with fractured femoral necks, 213.
Ferland, J.-J., *with others*. A study on sources of infection in the pre-operative period and during operation, 663.
Fisk, G. R. Inheritance of tarsal coalition and its relationship to spastic flat foot (*discussion*), 881.
Pedicle tendon graft for flexor tendon injuries of the fingers (*discussion*), 881.
The results of conservative treatment of fractures of the femur and tibia in the same limb (*discussion*), 212.
Fitton, J. M., *with* **Ross, F. G. M., and Middlemiss, J. H.** Sarcoma in Paget's disease, 880.
Fluck, D., *with* **Taylor, J. F.** Tropical myositis: histology and ultrastructure, 653.
Foss, M. V. L., *with* **Byers, P. D.** Bone density and osteoarthritis, 212.
Foster, R. L. Leprosy: surgical examination of hands, face and feet, and operative procedures, 442.
Fowler, A. W. Küntscher nail for fractured femoral shaft (*discussion*), 882.
Segmental fractures of the shaft of the tibia (*discussion*), 878.
Fowler, P. J., *with* **MacDonald, A. G.** Ligamentous-osseous injuries about the ankle—an experimental study, 662.
Frankel, V. H., *with* **Chapman, K. W.** Rotational deformity of both bones following forearm fractures, 666.
Freeman, M. A. R., *with* **Swanson, S. A. V., and Heath, J. C.** Laboratory tests on total joint replacement prostheses, *759.
with **Swanson, S. A. V., and Heath, J. C.** Some biological properties of the wear particles generated by all cobalt-chrome total joint prostheses, 424.
Fried, L. C. Atlanto-axial fracture-dislocations, *490.
Fulford, G. E., *with* **Heaney, S. H.** Review of soft-tissue hip surgery in children with cerebral palsy, 213.
Fuller, D. J. The Ellis plate operation for Smith's fracture, *173.

G

Gagnon, P. A., *with* **Montminy, M.** Hemimelic epiphysial dysplasia, 662.
with **Page, A., and Thiffault, G.** Arterial embolism following gunshot wound, 662.
Galasko, C. S. B., *with* **Barber, H. M., and Woods, C. G.** Multicentric extra-abdominal desmoid tumours, *858.
with **Edwards, D. H., and Fearn, C. B. D'A.** A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thromboembolism in patients with fractured femoral necks, 213.
Garden, J. William Frame White (*obituary*), 419.
Gariépy, R. Medial meniscectomy in osteoarthritis of the knee, 667.
Garner, R. W., *with* **Mowat, A. G., and Hazleman, B. L.** Wound healing after operations on patients with rheumatoid arthritis, *134.
Gertzbein, S. D., *with others*. Recurrent benign osteoblastoma of the second thoracic vertebra, *841.
Gervis, W. H. A review of excision of the trapezium for osteoarthritis of the trapezio-metacarpal joint after twenty-five years, *56.
Gibbs, C. Conditions affecting the hip joint in young animals, 877.
Gibson, D. A. Involvement of the skeletal system by tropical disease, 668.
Poliomyelitis undefeated, 232.
Gibson, R. Radiological evaluation of replacement arthroplasty of the hip, 433.
Gilmore, W. N. Morton's metatarsalgia, 221.
Godlee, J. N., *with others*. The role of fluorine-18 and strontium-87m scintigraphy in the management of infective spondylitis, *301.
Golding, J. S. R. Chondrolysis of the hip, 214.
Goodfellow, J., *with* **Bullough, P., and O'Connor, J.** The relationship between degenerative changes and load-bearing in the human hip, *746.
Gough, H. M., *with* **Kenwright, J.** Soft-tissue lymphatic drainage after tibial shaft fractures and its relationship to the development of post-fracture oedema, 877.
Graham, C. E. Experiences with the treatment of backache by intradiscal chymopapain, 226.
Graham, J. (*Glasgow*), *with* **Checketts, R. G.** Synovectomy of the knee joint in rheumatoid arthritis, *786.
Graham, J. (*Toronto*), *with* **Waddell, J. P., and Lenczner, E.** Tarso-metatarsal (Lisfranc) dislocation, 666.
Grainger, W. D., *with* **Taylor, T. K. F.** Disc space infection as a complication of disc surgery, 435.
Gray, D. H., *with* **Hamblen, D. L.** The effect of varying oxygen tension on bone resorption in mouse calvaria in organ culture, 656.
Green, W. T. Recurrent dislocation of the patella (*discussion*), 215.
Greenlaw, R. K. Torticollis and congenital hip dysplasia (*discussion*), 665.
Griffith, M. G. The morphology of slipped upper femoral epiphysis, 653.
Griffiths, D. Ll. Peter Islwyn Hywel-Davies (*obituary*), 206.
Grogono, B. J., *with* **Abdulla, A., and Woodbury, J.** Clinical radiological and correlated study of cervical spine in rheumatoid arthritis, 665.
Grollman, T., *with others*. The orthopaedic management of spinal muscular atrophy, 663.
Gross, A. Auto-immunogenicity of articular cartilage, 233.
Guimont, A., *with others*. A study on sources of infection in the pre-operative period and during operation, 663.
Gunston, F. Preliminary report on the polycentric total knee arthroplasty (*discussion*), 668.

H

Hadfield, G. *Book review*, 447.
Hadjipavlou, A., *with* **Siller, T. N., and Wright, A. M.** Knee arthrodesis—unsatisfactory results, 668.
Hall, A. J., *with* **Mackay, N. N. S.** The results of laminectomy for compression of the cord or cauda equina by extradural malignant tumour, *497.
with others. Pyogenic infections occurring primarily in intervertebral discs, *698.
Hall, H. Complete dislocation of the knee, 233.
Hall, J. The orthopaedic management of spinal muscular atrophy (*discussion*), 663.

* Indicates full article.

Hamblen, D. L. The surgical management of paralytic vertical talus in myelomeningocele (*discussion*), 876.
with **Gray, D. H.** The effect of varying oxygen tension on bone resorption in mouse calvaria in organ culture, 656.
Hambury, H. J. *Book reviews*, 239, 672.
Hamilton, H. W., *with* **Casey, B. H., and Bobechko, W. P.** Acute slip of the upper femoral epiphysis, 430.
Hampson, W. G. J., *with* **Hill, P.** Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella, 876.
Hancock, D. O., *with others*. Atlanto-subluxation in rheumatoid arthritis, *458.
with others. Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis, 217.
with others. Upward translocation of the dens in rheumatoid arthritis, *471.
Hancox, N. M., *with* **Włodarski, K., and Brooks, B.** The influence of cortisone and implantation site on bone and cartilage induction in various animals, *595.
Handelsman, J. E. Management of paralytic calcaneus deformity of the foot, 438.
The scientific basis for innominate osteotomy in the treatment of Legg-Perthes' disease (*discussion*), 216.
Hannon, M. A., *with* **Lowe, L. W.** Residual adduction of the forefoot in treated congenital club foot, *809.
Hansen, S. T., *with* **Taylor, T. K. F.** Surgical management of infections of the hip joint, 224.
Hardy, A. *Book review*, 889.
Harris, J., *with* **Wearne, W. M.** The design of a total knee replacement, 433.
Harris, W. H. A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thrombo-embolism in patients with fractured femoral necks (*discussion*), 213.
Dextran 75 in the prophylaxis of deep vein thrombosis and pulmonary embolus (*discussion*), 661.
On the cause of death in fractures of the pelvis (*discussion*), 660.
with others. Observations on fracture healing, 214.
Harris, W. R., *with* **Hornby, R.** Are Syme's amputations worthwhile?, 666.
with others. Lumbo-sacral nerve root avulsion, 662.
Harrison, M. H. M. The results of conservative treatment of fractures of the femur and tibia in the same limb (*discussion*), 212.
Hart, J. A. L. Intraosseous lipoma, *624.
Hastings, D. E. *Discussion*, 663.
Rheumatoid deformities of the wrist and their relation to ulnar drift, 233.
with **Evans, J. A., and Hewitson, W. A.** Rheumatoid wrist deformities and their relation to ulnar drift, 664.
with **Hewitson, W. A.** Double hemiarthroplasty of the knee in rheumatoid arthritis, *112.
Hay, M. C., *with* **Walker, G.** Plantar pressures in healthy children and in children with myelomeningocele, *828.
Hayes, A. G. The place of surgery in the early treatment of lumbar disc lesions, 210.
Hayton, W. C., *with* **Wedge, J. H., and Kirkaldy-Willis, J. H.** Dextran 75 in the prophylaxis of deep vein thrombosis and pulmonary embolus, 661.
Hazleman, B. L., *with* **Garner, R. W., and Mowat, A. G.** Wound healing after operations on patients with rheumatoid arthritis, *134.
Hazlett, J. W. Femoral neuritis, 232.
Heaney, S. H., *with* **Fulford, G. E.** Review of soft-tissue hip surgery in children with cerebral palsy, 213.
Heath, J. C. *Discussion*, 427.
with **Swanson, S. A. V., and Freeman, M. A. R.** Laboratory tests on total joint replacement prostheses, *759.
with **Swanson, S. A. V., and Freeman, M. A. R.** Some biological properties of the wear particles generated by all cobalt-chrome total joint prostheses, 424.
Helfet, A. Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella (*discussion*), 876.
Heller, L. Oblique transposition osteotomy of the first metatarsal for adolescent hallux valgus (*discussion*), 663.
Hennebry, T. M. Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella (*discussion*), 876.
Hewitson, W. A., *with* **Hastings, D. E.** Double hemiarthroplasty of the knee in rheumatoid arthritis, *112.
with **Hastings, D. E., and Evans, J. A.** Rheumatoid wrist deformities and their relation to ulnar drift, 664.
Hill, A. G. S., *with others*. Atlanto-axial subluxation in rheumatoid arthritis, *458.
with others. Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis, 217.
with others. Upward translocation of the dens in rheumatoid arthritis, *471.
Hill, N. A., *with* **Carroll, R. E.** Arthrodesis of the carpo-metacarpal joint of the thumb, *292.
Hill, P., *with* **Hampson, W. G. J.** Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella, 876.
Hněvkovský, O., *with* **Ráliš, Z.** Congenital dislocation of the hip: question of the reliability of clinical diagnosis without radiological examination, 879.
Hoaglund, F. T. Clinical radiological and correlated study of cervical spine in rheumatoid arthritis (*discussion*), 665.
Hodgkinson, R. T. Problems in arthroplasty of the hip (*discussion*), 224.
Hodgson, A. R. Cervical spondylosis, 442.
Correction of kyphotic spinal deformities, 211.
Hoffer, M. M., *with others*. The orthopaedic management of spinal muscular atrophy, 663.
Hoffman, H., *with others*. Recurrent benign osteoblastoma of the second thoracic vertebra, *841.
Honner, R. A follow-up of neuro-vascular flaps (*discussion*), 226.
The nutrition of articular cartilage, 221.
Hornby, R., *with* **Harris, W. R.** Are Syme's amputations worthwhile?, 666.
Howorth, B. Knock knees with special reference to the stapling operation, 667.
Triple arthrodesis, 439.
Hsu, J. D., *with others*. The orthopaedic management of spinal muscular atrophy, 663.
Hua, K. J. Arterial injury in skeletal trauma in the lower limb, 236.
Huckell, J. The enigma of anterior cruciate injury (*discussion*), 667.
Huckstep, R. L. Less radical surgery in peripheral vascular disease (*discussion*), 434.
Traumatic dislocation of the hip (*discussion*), 429.
Huffam, W. H. Complications encountered in operations for congenital dislocation of the hip (*discussion*), 430.
Further experience in the diagnosis and management of congenital dislocation of the hip in the newborn, 228.

* Indicates full article.

Hughes, J. R. Congenital dislocation of the hip: question of the reliability of clinical diagnosis without radiological examination (*discussion*), 879.
Sarcoma in Paget's disease (*discussion*), 880.
Hummer, C. D., *with* **MacEwen, G. D.** Torticollis and congenital hip dysplasia, 665.
Humphrey, J. G., *with others.* Lumbo-sacral nerve root avulsion, 662.
Hunter, G. A retrospective review of deep infections following total hip replacement, 664.
Hutton, W. C., *with* **Stott, J. R. R., and Stokes, I. A. F.** Forces under the foot, *335.

I

Ismail, H. A. M. Development of orthopaedic and accident services, 234.
Israel, J. A., *with* **Kostuik, J. P.** The surgical management of scoliosis in the adult, 665.

J

Jackson, J. W., *with others.* Anterior fusion of the spine for infective lesions in adults, *715.
with others. Haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
with others. Pyogenic infections occurring primarily in intervertebral discs, *698.
Jackson, R. W. Medial meniscectomy in osteoarthritis of the knee (*discussion*), 667.
James, J. I. P. Congenital sternomastoid torticollis: an intra-uterine postural deformity (*discussion*), 877.
Correction of kyphotic spinal deformities (*discussion*), 211.
Douglas Leslie Savill (*obituary*), 871.
Pedicle tendon graft for flexor tendon injuries of the fingers (*discussion*), 881.
Jeffery, A. K. Osteogenesis in the osteoarthritic femoral head, *262.
Jenkins, D. H. R. Osteomalacia in fractured neck of femur in the elderly, 654.
with others. Osteomalacia in elderly patients with fracture of the femoral neck, *575.
Jeremiah, J. D., *with others.* Anterior fusion of the spine for infective lesions in adults, *715.
with others. Pyogenic infections occurring primarily in intervertebral discs, *698.
Johns, D. L., *with others.* The role of fluorine-18 and strontium-87m scintigraphy in the management of infective spondylitis, *301.
Johnston, C. Repair of recurrent dislocation of the shoulder using a pull-out wire technique (*discussion*), 666.
Jones, E. R., *with* **Crellin, R. Q.** Sacral extradural cysts, *20.
Judet, R. Experimental arthroplasty of the hip in the baboon (*discussion*), 442.
Mobilisation of the stiff knee joint, 441.

K

Kandar, B. A., *with* **Arden, G. P.** Küntscher nail for fractured femoral shaft, 882.
Kame, S. K., *with* **Crock, H. V., and Yoshizawa, H.** Observations on the venous drainage of the human vertebral body, *528.
Kane, W. J. Bristow repair in recurrent anterior dislocation of the shoulder, 880.
Operative treatment of scoliosis by the Harrington method with modification (*discussion*), 431.
Karchinov, K. Congenital diplopodia with hypoplasia or aplasia of the tibia, *604.
Kemp, H. B. S. The scientific basis for innominate osteotomy in the treatment of Legg-Perthes' disease (*discussion*), 216.
with others. Anterior fusion of the spine for infective lesions in adults, *715.
with others. Haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
with others. Pyogenic infections occurring primarily in intervertebral discs, *698.
with others. The role of fluorine-18 and strontium-87m scintigraphy in the management of infective spondylitis, *301.
Kendall, B. E., *with others.* Haemangioma of a vertebral body treated by ligation of the segmental arteries, *534.
Kennedy, J. C. A rationale for the post-operative management of post-meniscectomy patients (*discussion*), 667.
with **Weinberg, H. W.** The enigma of anterior cruciate injury, 667.
Kenwright, J., *with* **Gough, H. M.** Soft-tissue lymphatic drainage after tibial shaft fractures and its relationship to the development of post-fracture oedema, 877.
Kessler, I. Silicone arthroplasty of the trapezio-metacarpal joint, *285.
Khong, B. T., *with* **Chacha, P. B.** Eosinophilic granuloma of bone, 236.
Kilburn, P. A metaphysial abnormality, *643.
King, D. Spinal infections, 229.
King, T. The value of a uniform percentage rating in the evaluation of permanent physical impairment of the back and extremities, 220.
Kirkaldy-Willis, J. H., *with* **Wedge, J. H., and Hayton, W. C.** Dextran 75 in the prophylaxis of deep vein thrombosis and pulmonary embolus, 661.
Klenerman, L. Cardiovascular effects of implanted acrylic cement (*discussion*), 210.
with **Merrick, M. V.** Anterior sacral meningocele occurring in a family, *331.
Klisic, P. Congenital dislocation of the hip between five and fifteen years (*discussion*), 438.
Kostuik, J. P. Halo-pelvic traction in the surgical management of adult scoliosis, 232.
with **Israel, J. A.** The surgical management of scoliosis in the adult, 665.
Krenz, J., *with* **Troup, J. D. G.** The structure of the pars interarticularis of the lower lumbar vertebrae and its relation to the etiology of spondylolysis, *735.
Kruse, R. L., *with* **Landells, D. G.** Metatarsal osteotomies in congenital metatarsus adductus, 665.

L

Lacey, E., *with* **Shaw, N. E.** The influence of corticosteroids on normal and papain-treated articular cartilage in the rabbit, *197.
Lahz, J. C. Metatarso-phalangeal arthrodesis for hallux valgus, 220.
Landells, D. G., *with* **Kruse, R. L.** Metatarsal osteotomies in congenital metatarsus adductus, 665.
Laurenson, G. R. Graeme Ballantyne Smaill (*obituary*), 420.
Laurin, C. A. Chronic sprains of the ankle and ankle arthrographs, 233.
The complete investigation of ankle sprains, 663.
with **Mitchell, N., and Shepard, N.** The effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
Lavorgna, J., *with others.* Observations of fracture healing, 214.

* Indicates full article.

Leclerc, L. The surgical solution to the swan neck deformity of rheumatoid arthritis (*discussion*), 665.
Lee, D. R. Sudeck-like condition at hip and knee in pregnancy, 441.
Lee, H. B. Ivor Murrray Robertson (*obituary*), 418.
Lees, W. *Discussion*, 427.
Lenczner, E., *with* **Graham, J., and Waddell, J. P.** Tarso-metatarsal (Lisfranc) dislocation, 666.
Leonard, M. A. Inheritance of tarsal coalition and its relationship to spastic flat foot, 881.
The inheritance of tarsal fusions and their relationship to spastic flat foot, 428.
Lettin, A. W. F. *Book review*, 674.
Observations on fracture healing (*discussion*), 214.
with **Phillips, H., and Cole, P. V.** Cardiovascular effects of implanted acrylic cement, 210.
with **Scales, J. T.** Total replacement arthroplasty of the shoulder in rheumatoid arthritis, 217.
Liddell, W. A. Recognition of failure in replacement arthroplasty of the hip, 432.
Lima, C. Bone grafting in some unusual circumstances, 439.
Ling, C. M., *with* **Low, Y. S.** Sternomastoid tumour and muscular torticollis, 235.
Lipscomb, P. R. The role of cortical bone grafts, 439.
Surgery of the hand and rheumatoid arthritis, 440.
Lloyd, J. Rotational deformity of both bones following forearm fractures (*discussion*), 666.
Lloyd-Roberts, G. C. *Book review*, 888.
Treatment of defects of the ulna in children by establishing cross-union with the radius, *327.
with **Clark, R. C.** Ball and socket ankle joint in metatarsus adductus varus, *193.
Lofthouse, R. A rationale for the post-operative management of post-meniscectomy patients (*discussion*), 667.
London, P. S. *Book reviews*, 243, 448.
Lothe, K., *with* **Spycher, M. A., and Rüttner, J. R.** "Matrix-streaks": a peculiar pattern in the cartilage of the femoral head of ageing human subjects, *581.
Louis, C. J., *with* **Riddell, R. J., and Bromberger, N. A.** Pulmonary metastases from chondroblastoma of the tibia, *848.
Low, Y. S., *with* **Ling, C. M.** Sternomastoid tumour and muscular torticollis, 235.
Lowe, L. W., *with* **Hannon, M. A.** Residual adduction of the forefoot in treated congenital club foot, *809.
Lucas, H. K. The place of surgery in the early treatment of lumbar disc lesions (*discussion*), 210.
Lucas, K., *with* **Todd, C.** Closed adult tibial shaft fractures, 878.
Luck, J. V. Bone tumours treated by block resections, 441.
Lundborg, G., *with* **Rydevik, B.** Effects of stretching the tibial nerve of the rabbit, *390.

M

McAlister, J., *with others*. The role of fluorine-18 and strontium-87m scintigraphy in the management of infective spondylitis, *301.
McConkey, J. P., *with* **Tate, R. G.** The combined Campbell Roux-Goldthwait procedure for recurrent subluxation and dislocation of the patella, 667.
MacDonald, A. G., *with* **Fowler, P. J.** Ligamentous-osseous injuries about the ankle—an experimental study, 662.
MacDonald, D. Splaying of the first metatarsal space in common foot disorders, 221.
McDonald, G. A. Review of operations on lumbar discs, 234.
MacEwen, G. D., *with* **Hummer, C. D.** Torticollis and congenital hip dysplasia, 665.
McGoey, P., *with others*. A rationale for the post-operative management of post-meniscectomy patients, 667.
McGraw, R. W., *with* **Rusch, R. M.** Atlanto-axial arthrodesis, *482.
Mackay, N. N. S., *with* **Hall, A. J.** The results of laminectomy for compression of the cord or cauda equina by extradural malignant tumour, *497.
McKee, G. K. Bone density and osteoarthritis (*discussion*), 212.
MacKenzie, A. B. The cauda equina syndrome, 435.
Mackenzie, D. A., *with others*. Observations of fracture healing, 214.
McKibbin, B. *Book review*, 673.
The use of splintage in the management of paralytic dislocation of the hip in spina bifida cystica, *163.
with **Ráliš, Z.** Changes in shape of the human hip joint during its development and their relation to its stability, *780.
McLauchlan, J. Solitary myeloma of the clavicle with long survival after total excision, *357.
Macnab, I., *with* **Rorabeck, C. H., and Waddell, J. P.** The anterior tibial compartment syndrome, 666.
McNeur, J. C. Problems in arthroplasty of the hip, 224.
Maguire, W. B. The Lapidus procedure for hallux valgus, 221.
Manning, C. W. *Book review*, 447.
with **Prime, F. J., and Zorab, P. A.** Partial costectomy as a cosmetic operation in scoliosis, *521.
with others. A new method for studying the metabolic activity of the iliac crest growth-plate: its relevance to scoliosis, 428.
Maroudas, A. Distribution of metallic ions between connective tissue and extracellular fluids, 424.
Marsden, F. W., *with* **Burgess, E. M.** Amputations for tumour—the use of the Seattle immediate post-operative prosthetic fitting technique, 434.
Matthews, P. Ganglia of the flexor tendon sheaths in the hand, *612.
Mayo, K. M. Spinal infections, 229.
Meachim, G. Local changes in tissue adjacent to metal implants, 426.
with **Emery, I.** A quantitative study of patello-femoral cartilage fibrillation in Liverpool necropsies, 655.
Medical Research Council. Working Party on Tuberculosis of the Spine. A controlled trial of ambulant out-patient treatment and in-patient rest in bed in the management of tuberculosis of the spine in young Korean patients on standard chemotherapy, *678.
Meggitt, B. F. Orthopaedic management of foot breakdown in the diabetic patient, 882.
Mehta, M. H. Radiographic estimation of vertebral rotation in scoliosis, *513.
Menelaus, M. Spinal deformity in spina bifida, 223.
Merrick, M. V., *with* **Klenerman, L.** Anterior sacral meningocele occurring in a family, *331.
Middlemiss, J. H., *with* **Ross, F. G. M., and Fitton, J. M.** Sarcoma in Paget's disease, 880.
Middleton, R. W. D., *with* **Varian, J. P.** Tourniquet paralysis, 432.
Miller, J. Traumatic dislocation of the hip (*discussion*), 660.
Mills, K. W. Combined femoral and tibial osteotomies (*discussion*), 433.
Milroy, P. J. A follow-up of neuro-vascular flaps, 226.

* Indicates full article.

Mitchell, N., *with* **Laurin, C., and Shepard, N.** The effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
with **Rennie, W.** Flexion distraction fractures of the lumbar spine, 662.
Moe, J. Congenital scoliosis—classification and scoliosis (*discussion*), 665.
Monahan, P. R. W., *with* **Nade, S. M. L.** Results of non-operative treatment of calcaneal fractures: a study of long-term prognosis, 429.
Montminy, M., *with* **Gagnon, P. A.** Hemimelic epiphysial dysplasia, 662.
Moonje, V. B., *with others.* Functional anatomy of the ankle joint and its relationship to ankle injuries, 662.
Moore, M., *with* **Witherow, P. J.** The demonstration of tumour associated antigens in human osteosarcomas, 654.
Morton, K. S., *with* **Patterson, F. P.** On the cause of death in fractures of the pelvis, 660.
Mowat, A. G., *with* **Garner, R. W., and Hazleman, B. L.** Wound healing after operations on patients with rheumatoid arthritis, *134.
Muckle, D. S. The effect of elevated tissue temperatures on an experimental muscle tumour, 654.
Mukherjee, S. K., *with* **Young, A. B.** Dome fracture of the talus, *319.
Murphy, W. M. Structure and diffusion properties of fibrous tissue capsules around foreign bodies, 425.

N

Nade, S. M. L., *with* **Monahan, P. R. W.** Results of non-operative treatment of calcaneal fractures: a study of long-term prognosis, 429.
Naylor, A. The place of surgery in the early treatment of lumbar disc lesions (*discussion*), 210.
Nelson, M. A. Lumbar spinal stenosis, *506.
Nelson, S. D. Tissue typing and "spare part" surgery, 880.
Newman, P. H. *Book review*, 892.
A controlled clinical trial to investigate the use of low dosage heparin for the prevention of thromboembolism in patients with fractured femoral necks (*discussion*), 213.
Surgical treatment for derangement of the lumbar spine, *7.
Nichols, P. J. R. *Book review*, 241.
Nickel, V. Diastematomyelia complicating congenital scoliosis (*discussion*), 431.
"Fracture bracing" for femoral shaft fractures, 429.
Less radical surgery in peripheral vascular disease, 434.
Norwood lecture, 431.
Operative treatment of scoliosis by the Harrington method with modification (*discussion*), 431.
Traumatic dislocation of the hip (*discussion*), 429.
with others. The orthopaedic management of spinal muscular atrophy, 663.
Nien, C. W. Incidence of congenital club foot in Singapore, 235.
Nissen, K. I. Osteoarthrosis of the hip and its relationship to pre-existing disorders in an African population (*discussion*), 216.

O

O'Connor, J., *with* **Bullough, P., and Goodfellow, J.** The relationship between degenerative changes and load-bearing in the human hip, *746.
O'Driscoll, M. Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella (*discussion*), 876.
Subcapital fracture types and osteomalacia and vitamin D deficiency, 882.
O'Garra, J. A. Bristow repair in recurrent anterior dislocation of the shoulder (*discussion*), 880.
Osborne, G. V. Observations on fracture healing (*discussion*), 214.
Ottolenghi, C. Injuries to the collateral ligaments of the knee, 441.

P

Page, A., *with* **Gagnon, P. A., and Thiffault, G.** Arterial embolism following gunshot wound, 662.
Paice, F., *with* **Dickson, R. A., and Calnan, J. S.** The quantitative colour television image analyser, *359.
Park, W. M., *with* **Spivey, J.** The production of ischaemic lesions in the hip of immature rabbits using arterial microemboli, 655.
Parker, G. "Accident Flying Squad" (*discussion*), 875.
Parsons, T. A. The snapping scapula and subscapular exostoses, *345.
Paterson, C. R., *with* **Brown, T. S.** Osteosclerosis in myeloma, *621.
Paterson, D. C. Complications encountered in operations for congenital dislocation of the hip (*discussion*), 430.
Orthopaedic management in haemophilia, 436.
with **Spitzer, A. G.** Acute nerve involvement in supracondylar fractures of the humerus in children, 227.
Patterson, F. P. Instability of the upper cervical spine (*editorial*), 456.
with **Morton, K. S.** On the cause of death in fractures of the pelvis, 660.
Pegington, J., *with others.* Functional anatomy of the ankle joint and its relationship to ankle injuries, 662.
Pennal, G. On the cause of death in fractures of the pelvis (*discussion*), 660.
Perkins, D. J. Transport, deposition and excretion of trivalent metal ions in the body, 423.
Peterson, L. F. A., *with* **Combs, J. C., and Bryan, R. S.** Preliminary report on the polycentric total knee arthroplasty, 668.
Petrie, D. Hereditary sensory radicular neuropathy—a clinico-pathological study with special reference to chromosomal aberration (*discussion*), 663.
Petrie, J. G. Congenital elevation of the scapula, 441.
Phillips, H., *with* **Lettin, A. W. F., and Cole, P. V.** Cardiovascular effects of implanted acrylic cement, 210.
Piggot, J. Review of soft-tissue hip surgery in children with cerebral palsy (*discussion*), 213.
Pillay, V. K., *with* **Chacha, P. B.** Scoliosis in Singapore, 235.
Pinder, I. M. Refracture of the shaft of the adult tibia, 878.
Treatment of the popliteal cyst in the rheumatoid knee, *119.
Plante, C. A. Hereditary sensory radicular neuropathy—a clinico-pathological study with special reference to chromosomal aberration, 663.
Pool, C. Colles's fracture, *540.
Popplewell, D. S. Drug-metal interaction in biological systems, 422.
Prime, F. J., *with* **Manning, C. W., and Zorab, P. A.** Partial costectomy as a cosmetic operation in scoliosis, *521.

* Indicates full article.

Pugh, L. G. C. E. The oxygen intake and energy cost of walking before and after unilateral hip replacement, with some observations on the use of crutches, *742.
Pulvertaft, R. G. Twenty-five years of hand surgery, *32.

R

Raine, G. E. T. Acute traumatic dislocation of a congenitally dysplastic hip, *640.
Ráliš, Z. Congenital sternomastoid torticollis: an intra-uterine postural deformity (*discussion*), 877.
with **Duckworth, T.** Morphology of vertical talus, 428.
with **Hřevkovský, O.** Congenital dislocation of the hip: question of the reliability of clinical diagnosis without radiological examination, 879.
with **McKibbin, B.** Changes in shape of the human hip joint during its development and their relation to its stability, *780.
Rana, N. A., *with* **Taylor, A. R.** Excision of the distal end of the ulna in rheumatoid arthritis, *96.
with others. Atlanto-axial subluxation in rheumatoid arthritis, *458.
with others. Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis, 217.
with others. Upward translocation of the dens in rheumatoid arthritis, *471.
Rathbun, J. B., *with* **Dewar, F. P.** Oblique transposition osteotomy of the first metatarsal for adolescent hallux valgus, 663.
with others. Lumbo-sacral nerve root avulsion, 662.
Ratliff, A. H. C. *Book review*, 889.
The results of conservative treatment of fractures of the femur and tibia in the same limb (*discussion*), 212.
The scientific basis for innominate osteotomy in the treatment of Legg-Perthes' disease (*discussion*), 216.
Ray, R. D. The role of the pituitary and thyroid in the healing of standard bone defects, 442.
Reimers, J. Static and dynamic problems in spastic cerebral palsy, *822.
Rennie, W., *with* **Mitchell, N.** Flexion distraction fractures of the lumbar spine, 662.
Riddell, R. J., *with* **Louis, C. J., and Bromberger, N. A.** Pulmonary metastases from chondroblastoma of the tibia, *848.
Ring, P. A. Problems of the uncemented total hip replacement, 209.
The Ring replacement operation and bone pain (*discussion*), 875.
Ritchie, D. Massive osteochondritis of the lateral femoral condyle, 222.
Roaf, R. *Book reviews*, 671.
with **Calma, I.** Activity and function of the intercostal muscles: an electromyographic investigation, 653.
Roberts, J. G., *with others.* Osteomalacia in elderly patients with fracture of the femoral neck, *575.
Roberts, P. H. Cartilaginous tumours of the hand, 881.
Robichon, J., *with others.* Functional anatomy of the ankle joint and its relationship to ankle injuries, 662.
Robinson, M. P., *with* **Edgar, M. A.** Post-radiation sarcoma in ankylosing spondylitis, *183.
Roles, N. C., *with* **Arden, G. P.** Synovectomy of the knee in rheumatoid arthritis, 215.
Roper, B. A. Metallic hinge arthroplasty in the rheumatoid elbow (*discussion*), 874.
Rorabeck, C. H., *with* **Macnab, I., and Waddell, J. P.** The anterior tibial compartment syndrome, 666.
Ross, F. G. M., *with* **Middlemiss, J. H., and Fitton, J. M.** Sarcoma in Paget's disease, 880.
Rothwell, A. G., *with* **Bentley, G.** Chondrocyte multiplication in osteoarthritic articular cartilage, *588.
Rowe, D. P. The use of compression plates without external splintage, 222.
Roy, L., *with others.* A study on sources of infection in the pre-operative period and during operation, 663.
Rusch, R. M., *with* **McGraw, R. W.** Atlanto-axial arthrodesis, *482.
Rush, J. H. Bone induction mechanism, 437.
Russell, R. G. G., *with* **Smith, R.** Diphosphonates, *66.
Rüttner, J. R., *with* **Lothe, K., and Spycher, M. A.** "Matrix-streaks": a peculiar pattern in the cartilage of the femoral head of ageing human subjects, *581.
Rydevik, B., *with* **Lundborg, G.** Effects of stretching the tibial nerve of the rabbit, *390.

S

Sadow, G. J. Recurrent dislocation of the patella, 215.
Salama, R., *with* **Burwell, R. G., and Dickson, I. R.** Recombined grafts of bone and marrow, *402.
Sallis, J. G., *with* **Beighton, P. H.** Digito-talar dysmorphism: a new entity, 439.
Salter, R. B. The scientific basis for innominate osteotomy in the treatment of Legg-Perthes' disease, 216.
with **de Castro, A.** The role of iliopsoas recession in the management of spastic hip flexion deformity, 661.
Savill, D. L. Metatarso-phalangeal arthrodesis for hallux valgus (*discussion*), 220.
Priorities in the surgical management of rheumatoid disease, 220.
Surgery of the rheumatoid hand, 227.
Sayers, D. C. J., *with others.* A new method for studying the metabolic activity of the iliac crest growth-plate: its relevance to scoliosis, 428.
Scales, J. T. Some biological and engineering aspects of surgical implants, 426.
with **Lettin, A. W. F.** Total replacement arthroplasty of the shoulder in rheumatoid arthritis, 217.
Schajowicz, F., *with* **Slullitel, J.** Eosinophilic granuloma of bone and its relationship to Hand-Schüller-Christian and Letterer-Siwe syndromes, *545.
Schweigel, J. F., *with* **Yu, W.** Flexor digitorum sublimis to profundus tendon transfer for flexion deformities of the hand and wrist in spastic paralysis, 664.
Scott, K. T. B. *Discussion*, 427.
Seminar on the effects of metals in the body, 421.
Segelov, P. M. Compression plating—the AO method and equipment, 222.
Segil, C. M., *with* **Simmons, E. H., and Buick, R. J. W.** The localisation of symptomatic levels in discogenic disease of the spine, 665.
Seimon, L. Modified hindfoot amputation, 439.
Sewell, R. H. Orthopaedic management of foot breakdown in the diabetic patient (*discussion*), 882.
Sharp, I. K. Plate fixation of disrupted symphysis pubis, *618.

* Indicates full article.

Sharrard, W. J. W. *Book review*, 446.
Osteoarthrosis of the hip and its relationship to pre-existing disorders in an African population (*discussion*), 216.
Review of soft-tissue hip surgery in children with cerebral palsy (*discussion*), 213.
The spring implant operation (*discussion*), 883.
The surgical management of paralytic vertical talus in myelomeningocele (*discussion*), 876.
with **Smith, T. W. D.** Flexor hallucis longus tenodesis: a new operation for clawing of the hallux, 879.
Shaw, D. G., *with* **Brown, I. D.** Multiple osteochondroses of the feet in a West Indian family, *864.
Shaw, N. E., *with* **Lacey, E.** The influence of corticosteroids on normal and papain-treated articular cartilage in the rabbit, *197.
Shaw, N. M. The Ring replacement operation and bone pain (*discussion*), 875.
Shepard, N., *with* **Mitchell, N., and Laurin, C.** The effect of osmium tetroxide and nitrogen mustard on normal articular cartilage, *814.
Siller, T. N., *with* **Hadjipavlou, A., and Wright, A. M.** Knee arthrodesis—unsatisfactory results, 668.
Silva, J. F. Rehabilitation and the orthopaedic surgeon, 235.
Training of orthopaedic surgeons and planning for the future, 235.
Silverstein, E. Madelung's deformity, 233.
Simmons, E. H. Congenital kyphosis, 233.
with **Segil, C. M., and Buick, R. J. W.** The localisation of symptomatic levels in discogenic disease of the spine, 665.
Simurda, M. A. Repair of persistent dislocation of the outer end of the clavicle, 232.
Swanson arthroplasty of the rheumatoid hand—the result of treatment (*discussion*), 664.
Sissons, H. A. *Book review*, 890.
Slullitel, J., *with* **Schajowicz, F.** Eosinophilic granuloma of bone and its relationship to Hand-Schüller-Christian and Letterer-Siwe syndromes, *545.
Smillie, I. S. Recurrent dislocation of the patella (*discussion*), 215.
Smith, H. Küntscher nail for fractured femoral shaft (*discussion*), 882.
Smith, R., *with* **Russell, R. G. G.** Diphosphonates, *66.
Smith, T. W. D., *with* **Sharrard, W. J. W.** Flexor hallucis longus tenodesis: a new operation for clawing of the hallux, 879.
Snook, R. "Accident Flying Squad", 875.
Snowdowne, R. B. Femur fractures: an ambulatory method of treatment, 440.
Soeur, R. Pedicle tendon graft for flexor tendon injuries of the fingers (*discussion*), 881.
Segmental fractures of the shaft of the tibia (*discussion*), 878.
Subcapital fracture types and osteomalacia and vitamin D deficiency (*discussion*), 882.
Solomon, L. Bone density and osteoarthritis (*discussion*), 212.
Drug-induced arthropathy and necrosis of the femoral head, *246.
Experimental arthroplasty of the hip in the baboon, 442.
Long-term results of closed treatment of congenital dislocation of the hip (*discussion*), 438.
Synovectomy of the knee in rheumatoid arthritis (*discussion*), 215.
with **Beighton, P.** Osteoarthrosis of the hip and its relationship to pre-existing disorders in an African population, 216.
Somerville, E. W. The foundation of an orthopaedic and accident service in a developing country, 657.
Sorbie, C., *with* **Taylor, G. M.** Traumatic dislocation of the hip, 660.
Soucy, D., *with* **Uhthoff, H. K., and Colliou, L.** Repair of recurrent dislocation of the shoulder using a pull-out wire technique, 666.
Souter, W. A. Comparison of mucopolysaccharide metabolism in the intervertebral discs of young and old rabbits, 428.
Metallic hinge arthroplasty in the rheumatoid elbow, 874.
Spitzer, A. G., *with* **Paterson, D. C.** Acute nerve involvement in supracondylar fractures of the humerus in children, 227.
Spivey, J., *with* **Park, W. M.** The production of ischaemic lesions in the hip of immature rabbits using arterial microemboli, 655.
Spring, W. E. Spondylolisthesis—a new clinical test, 229.
Spycher, M. A., *with* **Lothe, K., and Rüttner, J. R.** "Matrix-streaks": a peculiar pattern in the cartilage of the femoral head of ageing human subjects, *581.
Srinivasan, H. The extensor diversion graft operation for correction of intrinsic minus fingers in leprosy, *58.
Stening, W. S. L. Compression plating—the AO method and equipment (*discussion*), 222.
Problems in arthroplasty of the hip (*discussion*), 224.
Stephen, J. P. H. Some modern techniques in the surgery of kyphosis, 432.
Stoker, D. *Book review*, 445.
Stokes, I. A. F., *with* **Stott, J. R. R., and Hutton, W. C.** Forces under the foot, *335.
Stott, J. R. R., *with* **Hutton, W. C., and Stokes, I. A. F.** Forces under the foot, *335.
Strach, E. H. The spring implant operation, 883.
Straub, L. R. Preliminary report on the polycentric total knee arthroplasty (*discussion*), 668.
Stuckey, M. Complications encountered in operations for congenital dislocation of the hip, 430.
Sturrock, W. D. Compression plating—the AO method and equipment (*discussion*), 222.
The orthopaedic surgeon and the community (*presidential address*), 229.
Sue-A-Quan, E. A., *with others*. A rationale for the post-operative management of post-meniscectomy patients, 667.
Sutherland, N. G. Combined femoral and tibial osteotomies, 433.
Swanson, S. A. V., *with* **Freeman, M. A. R., and Heath, J. C.** Laboratory tests on total joint replacement prostheses, *759.
with **Freeman, M. A. R., and Heath, J. C.** Some biological properties of the wear particles generated by all cobalt-chrome total joint replacement prostheses, 424.
Sweeney, J. G. Internal fixation of trochanteric fractures in the lateral position, 224.
Sweetnam, R. Amputation in osteosarcoma, *189.
Cartilaginous tumours of the hand (*discussion*), 881.
Sybrandy, S., *with* **de la Fuente, A. A.** Multiple giant-cell tumour of bone, *350.

T

Talliard, W. Weight-bearing after hip operations, 442.
Tate, R. G., *with* **McConkey, J. P.** The combined Campbell Roux-Goldthwait procedure for recurrent subluxation and dislocation of the patella, 667.

* Indicates full article.

Taylor, A. R. Synovectomy of the knee in rheumatoid arthritis (*discussion*), 215.
with **Rana, N. A.** Excision of the distal end of the ulna in rheumatoid arthritis, *96.
with others. Atlanto-axial subluxation in rheumatoid arthritis, *458.
with others. Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis, 217.
with others. Upward translocation of the dens in rheumatoid arthritis, *471.
Taylor, D. M. Trace metal patterns and disease, 422.
Taylor, G. A., *with others.* Recurrent benign osteoblastoma of the second thoracic vertebra, *841.
Taylor, G. M., *with* **Sorbie, C.** Traumatic dislocation of the hip, 660.
Taylor, J. F., *with* **Fluck, D.** Tropical myositis: histology and ultrastructure, 653.
Taylor, T. K. F., *with* **Grainger, W. D.** Disc space infection as a complication of disc surgery, 435.
with **Hansen, S. T.** Surgical management of infections of the hip joint, 224.
Thambyrajah, K. Fractures of the cervical spine with minimal or no symptoms, 236.
Thiffault, G., *with* **Gagnon, P. A., and Page, A.** Arterial embolism following gunshot wound, 662.
Thomas, G. E. From bone setter to orthopaedic surgeon (*Robert Jones lecture*), 218.
Tile, M. Diabetic neuropathy in orthopaedic practice, 662.
Tinning, R. N. Surgery of the rheumatoid knee, 228.
Todd, C., *with* **Lucas, K.** Closed adult tibial shaft fractures, 878.
Tooth, R. M. Recurrent dislocation of the shoulder, 228.
Trevor, D. Congenital dislocation of the hip: question of the reliability of clinical diagnosis without radiological examination (*discussion*), 879.
Troup, J. D. G., *with* **Krenz, J.** The structure of the pars interarticularis of the lower lumbar vertebrae and its relation to the etiology of spondylolysis, *735.
Tucker, W. E. Küntscher nail for fractured femoral shaft (*discussion*), 882.
Segmental fractures of the shaft of the tibia (*discussion*), 878.
Soft-tissue lymphatic drainage after tibial shaft fractures and its relationship to the development of post-fracture oedema (*discussion*), 877.

U

Uhthoff, H. K. Mechanical factors influencing the holding power of screws in compact bone, *633.
with **Soucy, D., and Colliou, L.** Repair of recurrent dislocation of the shoulder using a pull-out wire technique, 666.

V

Valdueza, A. F. The nail-patella syndrome, *145.
van der Merwe, J. Long-term results of closed treatment of congenital dislocation of the hip (*discussion*), 438.
Van Vuren, J. P. The surgical anatomy of the hip in the baboon, 442.
Varian, J. P., *with* **Middleton, R. W. D.** Tourniquet paralysis, 432.
Venerys, J. E. Avascular necrosis of the femoral head after intertrochanteric fracture, 225.
Vila, J., *with* **Collado, F., and Beltrán, J. E.** Condylocephalic nail fixation for trochanteric fractures of the femur, *774.

W

Waddell, J. P., *with* **Graham, J., and Lenczner, E.** Tarso-metatarsal (Lisfranc) dislocation, 666.
with **Rorabeck, C. H., and Macnab, I.** The anterior tibial compartment syndrome, 666.
Wainwright, D. Chondrolysis of the hip (*discussion*), 214.
Long-term results of tibial tubercle transfer operations in recurrent dislocation of the patella (*discussion*), 876.
Review of soft-tissue hip surgery in children with cerebral palsy (*discussion*), 213.
The surgical management of paralytic vertical talus in myelomeningocele (*discussion*), 876.
Waisbrod, H. Congenital club foot, *796.
Walder, D. N., *with* **Cox, P. T.** Experimental embolic bone necrosis, 655.
Walker, G. F., *with* **Cheong-Leen, P.** The surgical management of paralytic vertical talus in myelomeningocele, 876.
with **Hay, M. C.** Plantar pressures in healthy children and in children with myelomeningocele, *828.
Wearne, W. M., *with* **Harris, J.** The design of a total knee replacement, 433.
Webster, D., *with others.* Osteomalacia in elderly patients with fracture of the femoral neck, *575.
Wedge, J. H., *with* **Kirkaldy-Willis, J. H., and Hayton, W. C.** Dextran 75 in the prophylaxis of deep vein thrombosis and pulmonary embolus, 661.
Weinberg, H. W., *with* **Kennedy, J. C.** The enigma of anterior cruciate injury, 667.
Weisl, H. The surgical management of paralytic vertical talus in myelomeningocele (*discussion*), 876.
Weisman, S. Metallic implants—today's trends and developments, 432.
Weissman, S. L., *with* **Dekel, S.** Osteotomy of the calcaneus and concomitant plantar stripping in children with talipes cavo-varus, *802.
Wiley, A. M. *Discussion*, 664.
with **Barnett, M.** Swanson arthroplasty of the rheumatoid hand—the result of treatment, 664.
Wiley, J. J. The gracilis syndrome, 662.
Surgery on the spinal cord for muscular spasticity, 232.
Wilkinson, M. C. Correction of kyphotic spinal deformities (*discussion*), 211.
The significance of tuberculin sensitivity in rheumatoid arthritis, 428.
Synovectomy of the knee in rheumatoid arthritis (*discussion*), 215.
Williams, D. D. *Discussion*, 426.
Williams, E. O., *with others.* Osteomalacia in elderly patients with fracture of the femoral neck, *575.
Williams, P. F. Amputations for tumour—the use of the Seattle immediate post-operative prosthetic fitting technique (*discussion*), 434.
Dislocation of the patella in childhood, 436.
The elbow in arthrogryposis, *834.
Wilson, D. W., *with* **Arden, G. P., and Ansell, B. M.** Synovectomy of the elbow in rheumatoid arthritis, *106.
Wilson, R. I. *Book review*, 673.
Problems of the uncemented total hip replacement (*discussion*), 209.

* Indicates full article.

Winston, M. E. The results of conservative treatment of fractures of the femur and tibia in the same limb, 212.
Witherow, P. J., *with* **Moore, M.** The demonstration of tumour associated antigens in human osteosarcomas, 654.
Włodarski, K., *with* **Hancox, N. M., and Brooks, B.** The influence of cortisone and implantation site on bone and cartilage induction in various animals, *595.
Wolferson, M., *with* **Wright, A. M.** Congenital scoliosis—classification and treatment, 665.
Woodbury, J., *with* **Abdulla, A., and Grogono, B. J.** Clinical radiological and correlated study of cervical spine in rheumatoid arthritis, 665.
Woods, C. G., *with* **Barber, H. M., and Galasko, C. S. B.** Multicentric extra-abdominal desmoid tumours, *858.
Woodyard, J. E. Henry George Lowe (*obituary*), 207.
Wortzman, G., *with others.* Lumbo-sacral nerve root avulsion, 662.
Wouters, A. W. Chondrolysis of the hip (*discussion*), 214.
Wright, A. M., *with* **Siller, T. N., and Hadjipavlou, A.** Knee arthrodesis—unsatisfactory results, 668.
with **Wolferson, M.** Congenital scoliosis—classification and treatment, 665.
Wright, T. A. Lesions of the spinal accessory nerve, 232.
Wynne-Davies, R. Inheritance of tarsal coalition and its relationship to spastic flat foot (*discussion*), 881.

Y

Yabsley, R. The surgical significance of radiological changes in osteoarthritis of the hip joint (*discussion*), 660.
Yeoman, P. M. Chondrolysis of the hip (*discussion*), 214.
Neurological complications following involvement of the atlanto-axial complex in rheumatoid arthritis (*discussion*), 217.
Yoshizawa, H., *with* **Crock, H. V., and Kame, S. K.** Observations on the venous drainage of the human vertebral body, *528.
Young, A. B., *with* **Mukherjee, S. K.** Dome fracture of the talus, *319.
Young, M. H. Long-term consequences of stable fractures of the thoracic and lumbar vertebral bodies, *295.
with **Blair, H. A. F.** Oestrogen excretion in adolescent idiopathic scoliosis, 428.
Yu, W., *with* **Schweigel, J. F.** Flexor digitorum sublimis to profundus tendon transfer for flexion deformities of the hand and wrist in spastic paralysis, 664.

Z

Zaltz, C., *with others.* A rationale for the post-operative management of post-meniscectomy patients, 667.
Zilva, J. F. *Book review*, 891.
Zorab, P. A., *with* **Manning, C. W., and Prime F. J.** Partial costectomy as a cosmetic operation in scoliosis, *521.

* Indicates full article.

CONTENTS

British Volume, 55–B, 1973

Editorials and Annotations — Page

Twenty-five Years 3

George Perkins . . . . . *Alan Graham Apley, Pyrford* 4

The Retirement of Mr H. Jackson Burrows 245

The Editorial Team 451

Bicentenary Abraham Colles, 1773–1843 . . . . *J. G. Bonnin, London* 452

Instability of the Upper Cervical Spine . . . . *F. P. Patterson, Vancouver* 456

Editorial . . . . . *R. C. F. Catterall, London* 677

Clinical, Pathological and Experimental Studies

Surgical Treatment for Derangement of the Lumbar Spine . *P. H. Newman, London* 7

Sacral Extradural Cysts . . . . . *R. Q. Crellin and E. R. Jones, London* 20

Twenty-five Years of Hand Surgery . . . . . *R. Guy Pulvertaft, Derby* 32

A Review of Excision of the Trapezium for Osteoarthritis of the Trapezio-Metacarpal Joint after Twenty-five Years . . . . . *W. H. Gervis, Tunbridge Wells* 56

The Extensor Diversion Graft Operation for Correction of Intrinsic Minus Fingers in Leprosy . . . . *H. Srinivasan, Chingleput* 58

Diphosphonates . . . . . *R. Graham G. Russell and Roger Smith, Oxford* 66

The Role of Lysosomal Enzymes in Skeletal Tissues . *J. T. Dingle, Cambridge* 87

Excision of the Distal End of the Ulna in Rheumatoid Arthritis . . . . . *N. A. Rana and A. R. Taylor, Aylesbury* 96

Synovectomy of the Elbow in Rheumatoid Arthritis . . *D. W. Wilson, London, G. P. Arden, Ascot, and B. M. Ansell, Taplow* 106

Double Hemiarthroplasty of the Knee in Rheumatoid Arthritis *David E. Hastings and W. A. Hewitson, Toronto* 112

Treatment of the Popliteal Cyst in the Rheumatoid Knee . *I. M. Pinder, Bath* 119

Arthroplasty of the Forefoot in Rheumatoid Arthritis . *N. J. Barton, Nottingham* 126

Wound Healing after Operations on Patients with Rheumatoid Arthritis . . . . . *Richard W. Garner, Louisville, Alastair G. Mowat and Brian L. Hazleman, Oxford* 134

The Nail-patella Syndrome . . . . . *A. Fidalgo Valdueza, Valladolid* 145

The Use of Splintage in the Management of Paralytic Dislocation of the Hip in Spina Bifida Cystica . . *B. McKibbin, Cardiff* 163

The Ellis Plate Operation for Smith's Fracture . . . *David J. Fuller, Bristol* 173

Resection Osteosynthesis and Boyd Amputation for Congenital Pseudarthrosis of the Tibia . . . . *Per Edvardsen, Oslo* 179

Post-radiation Sarcoma in Ankylosing Spondylitis . . *M. A. Edgar, London, and M. P. Robinson, Oswestry* 183

Amputation in Osteosarcoma . . . . . *Rodney Sweetnam, London* 189

Ball and Socket Ankle Joint in Metatarsus Adductus Varus *G. C. Lloyd-Roberts and R. C. Clark, London* 193

The Influence of Corticosteroids on Normal and Papain-treated Articular Cartilage in the Rabbit . . . . . *N. E. Shaw and Eve Lacey, Manchester* 197

Drug-induced Arthropathy and Necrosis of the Femoral Head . . . . . *L. Solomon, Johannesburg* 246

Osteogenesis in the Osteoarthritic Femoral Head . . . *A. K. Jeffery, Dunedin* 262

VOLUME CONTENTS

		Page
Herniated Intervertebral Lumbar Disc in the Teenager	*S. Bulos, Beirut*	273
Problems Associated with the Use of the Knee-chest Position for Operations on Lumbar Intervertebral Discs	*J. P. Alexander, Belfast*	279
Silicone Arthroplasty of the Trapezio-metacarpal Joint	*Isidor Kessler, Rehovot*	285
Arthrodesis of the Carpo-metacarpal Joint of the Thumb	*Robert E. Carroll and Norman A. Hill, New York*	292
Long-term Consequences of Stable Fractures of the Thoracic and Lumbar Vertebral Bodies	*M. H. Young, Cardiff*	295
The Role of Fluorine-18 and Strontium 87m Scintigraphy in the Management of Infective Spondylitis	*H. B. S. Kemp, D. L. Johns, Joan McAlister and J. N. Godlee, London*	301
Küntscher Intramedullary Reaming and Nail Fixation for Non-union of Fracture of the Femur and the Tibia	*N. O. Christensen, Lund*	312
Dome Fracture of the Talus	*Sadhan Kumar Mukherjee and Andrew B. Young, Glasgow*	319
Treatment of Defects of the Ulna in Children by Establishing Cross-union with the Radius	*G. C. Lloyd-Roberts, London*	327
Anterior Sacral Meningocele Occurring in a Family	*Leslie Klenerman and M. V. Merrick, London*	331
Forces under the Foot	*J. R. R. Stott, W. C. Hutton and I. A. F. Stokes, London*	335
The Snapping Scapula and Subscapular Exostoses	*T. A. Parsons, Stoke-on-Trent*	345
Multiple Giant-cell Tumour of Bone	*S. Sybrandy and A. A. de la Fuente, Enschede*	350
Solitary Myeloma of the Clavicle with Long Survival after Total Excision	*J. McLauchlan, Aberdeen*	357
The Quantitative Colour Television Image Analyser	*R. A. Dickson, F. Paice and J. S. Calnan, London*	359
The Vascular Anatomy within Normal Tendons, Divided Tendons, Free Tendon Grafts and Pedicle Tendon Grafts in Rabbits	*D. M. Chaplin, Birmingham*	369
Effects of Stretching the Tibial Nerve of the Rabbit	*Göran Lundborg and Björn Rydevik, Gothenburg*	390
Recombined Grafts of Bone and Marrow	*R. Salama, Tel-Aviv, R. G. Burwell, Nottingham, and I. R. Dickson, Boston, Massachusetts*	402
Atlanto-axial Subluxation in Rheumatoid Arthritis	*N. A. Rana, Chicago, D. O. Hancock, A. R. Taylor and A. G. S. Hill, Aylesbury*	458
Upward Translocation of the Dens in Rheumatoid Arthritis	*N. A. Rana, Chicago, D. O. Hancock, A. R. Taylor and A. G. S. Hill, Aylesbury*	471
Atlanto-axial Subluxation in the Morquio Syndrome	*Peter Beighton, Cape Town and James Craig, Johannesburg*	478
Atlanto-axial Arthrodesis	*R. W. McGraw, Vancouver, and R. M. Rusch, Portland*	482
Atlanto-axial Fracture Dislocations	*Larry C. Fried, Richmond, Virginia*	490
The Results of Laminectomy for Compression of the Cord or Cauda Equina by Extradural Malignant Tumour	*A. J. Hall and N. N. S. Mackay, London*	497
Lumbar Spinal Stenosis	*M. A. Nelson, Leeds*	506
Radiographic Estimation of Vertebral Rotation in Scoliosis	*M. H. Mehta, Calcutta*	513
Partial Costectomy as a Cosmetic Operation in Scoliosis	*C. W. Manning, F. J. Prime and P. A. Zorab, London*	521
Observations on the Venous Drainage of the Human Vertebral Body	*H. V. Crock, H. Yoshizawa, Melbourne and S. K. Kame, New Delhi*	528
Haemangioma of a Vertebral Body Treated by Ligation of the Segmental Arteries	*T. Bucknill, J. W. Jackson, H. B. S. Kemp, Stanmore, and B. E. Kendall, London*	534
Colles's Fracture	*Christopher Pool, London*	540

VOLUME CONTENTS

		Page
Eosinophilic Granuloma of Bone and its Relationship to Hand-Schüller-Christian and Letterer-Siwe Syndromes	*Fritz Schajowicz and Jorge Slullitel, Buenos Aires*	545
The Surgical Management of Congenital Vertical Talus	*Christopher L. Colton, London*	566
Osteomalacia in Elderly Patients with Fracture of the Femoral Neck	*D. H. R. Jenkins, J. G. Roberts, D. Webster and E. O. Williams, Cardiff*	575
"Matrix-streaks": A Peculiar Pattern in the Cartilage of the Femoral Head of Ageing Human Subjects	*Kari Lothe, M. A. Spycher and J. R. Rüttner, Zürich*	581
Chondrocyte Multiplication in Osteoarthritic Articular Cartilage	*Alastair G. Rothwell and George Bentley, Oxford*	588
The Influence of Cortisone and Implantation Site on Bone and Cartilage Induction in Various Animals	*K. Włodarski, Warsaw, N. M. Hancox and Brenda Brooks, Liverpool*	595
Congenital Diplopodia with Hypoplasia or Aplasia of the Tibia	*K. Karchinov, Varna*	604
Ganglia of the Flexor Tendon Sheaths in the Hand	*Phillip Matthews, Cardiff*	612
Plate Fixation of Disrupted Symphysis Pubis	*Ian K. Sharp, Rugby*	618
Osteosclerosis in Myeloma	*T. S. Brown and C. R. Paterson, Dundee*	621
Intraosseous Lipoma	*J. A. L. Hart, Oxford*	624
Mechanical Factors Influencing the Holding Power of Screws in Compact Bone	*Hans K. Uhthoff, Verdun, Quebec*	633
Acute Traumatic Dislocation of a Congenitally Dysplastic Hip	*G. E. T. Raine, Pyrford*	640
A Metaphysial Abnormality	*P. Kilburn, Keighley*	643
Fracture of the Neck of the Radius with Medial Displacement of the Head	*M. H. El Ghawabi, Cairo*	647
A Controlled Trial of Ambulant Out-patient Treatment and In-patient Rest in Bed in the Management of Tuberculosis of the Spine in Young Korean Patients on Standard Chemotherapy	*Medical Research Council Working Party on Tuberculosis of the Spine*	678
Pyogenic Infections Occurring Primarily in Intervertebral Discs	*H. B. S. Kemp, J. W. Jackson, J. D. Jeremiah and A. J. Hall, Stanmore*	698
Anterior Fusion of the Spine for Infective Lesions in Adults	*H. B. S. Kemp, J. W. Jackson, J. D. Jeremiah and Josephine Cook, Stanmore*	715
The Structure of the Pars Interarticularis of the Lower Lumbar Vertebrae and its Relation to the Etiology of Spondylolysis	*J. Krenz, Münster, and J. D. G. Troup, Stanmore*	735
The Oxygen Intake and Energy Cost of Walking Before and After Unilateral Hip Replacement, with some Observations on the Use of Crutches	*L. G. C. E. Pugh, London*	742
The Relationship Between Degenerative Changes and Load-bearing in the Human Hip	*Peter Bullough, New York, John Goodfellow and John O'Connor, Oxford*	746
Laboratory Tests on Total Joint Replacement Prostheses	*S. A. V. Swanson, M. A. R. Freeman and J. C. Heath, London*	759
Condylo-cephalic Nail Fixation for Trochanteric Fractures of the Femur	*F. Collado, J. Vila and J. E. Beltrán, Barcelona*	774
Changes in Shape of the Human Hip Joint During its Development and their Relation to its Stability	*Z. Ráliš and B. McKibbin, Cardiff*	780
Synovectomy of the Knee-joint in Rheumatoid Arthritis	*James Graham and Roger G. Checketts, Glasgow*	786
Congenital Club Foot	*Hanan Waisbrod, Tiberias*	796

Page

Osteotomy of the Calcaneus and Concomitant Plantar Stripping in Children with Talipes Cavo-varus . . . . . *S. Dekel and S. L. Weissman, Tel-Aviv* 802
Residual Adduction of the Forefoot in Treated Congenital Club Foot . . *L. W. Lowe and M. A. Hannon, London* 809
The Effect of Osmium Tetroxide and Nitrogen Mustard on Normal Articular Cartilage . . . *Nelson Mitchell, Carroll Laurin and Nora Shepard, Montreal* 814
Static and Dynamic Problems in Spastic Cerebral Palsy *Jørgen Reimers, Copenhagen* 822
Plantar Pressures in Healthy Children and in Children with Myelomeningocele . . *Malcolm C. Hay, Perth, Australia and Geoffrey Walker, Carshalton* 828
The Elbow in Arthrogryposis . . . . . *Peter F. Williams, Melbourne* 834
Recurrent Benign Osteoblastoma of the Second Thoracic Vertebra . . *S. D. Gertzbein, B. Cruickshank, H. Hoffman, G. A. Taylor and P. W. Cooper, Toronto* 841
Pulmonary Metastases from Chondroblastoma of the Tibia *R. J. Riddell, C. J. Louis and N. A. Bromberger, Melbourne* 848
Primary Haemangiopericytoma of Bone . . *James Dunlop, Surrey, Canada* 854
Multicentric Extra-abdominal Desmoid Tumours *H. M. Barber, C. S. B. Galasko and C. G. Woods, Oxford* 858
Multiple Osteochondroses of the Feet in a West Indian Family . . . *I. D. Brown and D. G. Shaw, London* 864

Honour to:
R. G. Pulvertaft—Conferment of Commander Order of the British Empire . . 219

In Memoriam
Peter Islwyn Hywel-Davies 206
Henry George Lowe 207
John Dennis Wilson 208
Sir Reginald Watson-Jones 418
Ivor Murray Robertson 418
William Frame White 419
Graeme Smaill 420
Douglas Leslie Savill 871
Thomas Barret Whiston 871

Proceedings and Reports of Universities, Colleges, Councils and Associations
British Orthopaedic Association—Autumn Meeting 1972 209
British Orthopaedic Association—Spring Meeting 1973 874
Australian Orthopaedic Association—Annual Meeting 1971 219
Australian and New Zealand Orthopaedic Associations—Combined Meeting 1972 . 429
South African Orthopaedic Association Annual Meeting 1972 437
Canadian Orthopaedic Association—Annual Meeting 1972 660
Orthopaedic Associations of Malaysia and Singapore—First Combined Meeting . 234
Burma—Foundation of an Orthopaedic and Accident Service in a Developing Country 657

British Orthopaedic Research Society 428, 653

University of Newcastle upon Tyne—Appointment of Professor of Orthopaedic Surgery —Jack Stevens 219
Victoria University of Manchester—Appointment of John Charnley to Personal Chair of Orthopaedics 421
University of Liverpool—Degree of M.Ch.(Orth.) 421

Page
University of Pretoria—Appointment of Professor of Orthopaedic Surgery: I. S. de Wet 437
University of Edinburgh—Appointment of D. C. Simpson to Personal Chair of Orthopaedic Bio-Engineering 652
University of Edinburgh—Foundation of Chair of Rehabilitation Studies . . . 652
University of Hong Kong—Appointment of Arthur Yau to Personal Chair in Orthopaedic Surgery 887

Royal College of Surgeons—Robert Jones Lecture 218
Royal Australasian College of Surgeons—Resolutions of Road Trauma Seminar . 656

Robert Jones Golf Cup 1972, 1973 . . . . . 218, 887
British Orthopaedic Association—Election of Honorary Fellows, Corresponding Fellows, Fellows, Members and Associates 218, 651
British Orthopaedic Association—Travelling Fellowships to North America 1974: Announcement 236
British Orthopaedic Association—Symposium on Orthopaedic Education—Announcement 237
British Orthopaedic Association—U.K. Travelling Scholarships 1974: Announcement 237
British Orthopaedic Association—Sixth Combined Meeting of English-speaking World: Announcement 443
British Orthopaedic Association—Spring Meeting 1974: Announcement . . . 443
British Orthopaedic Association—Presidential Address: Mr A. L. Eyre-Brook . . 883
British Orthopaedic Association—A Weekend Instructional Course: Announcement . 887
Canada—Dewar Orthopaedic Club 232
Mediterranean and Middle Eastern Society of Orthopaedic Surgery and Traumatology—Second Congress 234
British Orthopaedic Research Society—Announcements 237, 443, 669
Royal College of Surgeons in Ireland—Abraham Colles Bicentenary Conference—Announcement 237
British Association for Rheumatology and Rehabilitation—Announcement . . 237
Dutch Orthopaedic Association—International Congress: Announcement . . . 237
Swiss Orthopaedic Society—Announcement of Meeting 237
Department of Health and Social Security—Seminar on the Effects of Metals in the Body 421
British Society for Surgery of the Hand—Pulvertaft Prize: Announcement . . 443
British Society for Surgery of the Hand—Announcement 669
Biddulph Grange Orthopaedic Hospital, Stoke-on-Trent—Announcement of Meeting 443
American Society for Surgery of the Hand—Prize Essay Competition: Announcement 443
Journal of Bone and Joint Surgery—Twenty-fifth Anniversary Celebration of British Volume 650
Liverpool Medical Institution—Hugh Owen Thomas Memorial Lecture . . . 652
Sims Commonwealth Travelling Professorship—Robert B. Salter 668
University of Bradford—Announcement 669
British Council for Rehabilitation of Disabled—Announcement 669
Course on Radiology of Bones and Joints—Announcement 670
Austrian Traumatological Society—Announcement of Meeting 670
Ligue Internationale pour la Sauvegarde de la Main—Announcement . . . 670
Mexican and Latin American Congress of Oral Surgery—Announcement of Meeting . 670
South African Congress of Rheumatism, Arthritis and Allied Disorders—Announcement of Meeting 670
International Medical Society of Paraplegia and Spinal Injury Service of Veterans' Administration—Announcement of Meeting 670
Yugoslav Society of Orthopaedic Surgeons and Traumatologists—Announcement of Meeting 670
Swiss Association for Study of Internal Fixation—Announcement of Meetings . . 887
Quinquennial Index—Acknowledgements 887

VOLUME CONTENTS

Book Reviews Page

Lo Scalpello—*B. Calandriello* (Editor-in-Chief), *E. A. Nicoll* (English Editor) . . 238

Modern Trends in Orthopaedics—6—*A. Graham Apley* (Editor) 239

Spezielle Frakturen- und Luxationslehre. Volume 1/2—*Alan G. Hardy, Erich Jonasch, Johannes Poigenfürst and Alain B. Rossier* 239

Die Verletzungen des oberen Sprunggelenkes (Second edition)—*B. G. Weber* . . 240

The Comparative Pathology of the Tumors of Bone—*Shelden A. Jacobson* . . 240

Handbook of Physical Medicine and Rehabilitation—*Frank H. Krusen* (Editor) . . 241

Injuries to the Major Branches of Peripheral Nerves of the Forearm—*Morton Spinner* 241

Symposium on the Hand—*Lester M. Cramer and Robert A. Chase* (Editors) . . 242

The Care of Minor Hand Injuries (Third edition)—*Adrian E. Flatt* 242

La Maladie de Dupuytren (Second edition)—*R. Tubiana and J.-T. Hueston* (Editors) . 242

The Elephant Man. A Study in Human Dignity—*Ashley Montagu* 243

The Biochemistry and Physiology of Bone. Volumes I–III (Second edition)—*Geoffrey H. Bourne* (Editor) 444

International Histological Classification of Tumours. No. 6. Histological Typing of Bone Tumours—*F. Schajowicz, L. V. Ackerman and H. A. Sissons* 444

A Text-Book of X-Ray Diagnosis by British Authors in six volumes (Fourth edition). Volume 6—Bones, Joints and Soft Tissues—*S. Cochrane Shanks and Peter Kerley* 445

Muscles. Testing and Function (Second edition)—*Henry Otis Kendall, Florence Peterson Kendall and Gladys Elizabeth Wadsworth*. 446

Praktische Anatomie. Bein und Statik. Volume 1, 4th part. *J. Lang and W. Wachsmuth* (Editors) 446

Spinal Dysraphism. Spina Bifida Occulta—*C. C. Michael James and L. P. Lassman* . 447

Air Instrument Surgery. Volume 2—Orthopaedics—*Robert M. Hall* (Editor) . . 447

Hamilton Bailey's Emergency Surgery (Ninth edition)—*T. J. McNair* (Editor) . . 448

Childhood Osteology: Bone Tumours and Dysplasias—*M. V. Volkov* 671

Homotransplantation of Bone Tissue in Children—*M. V. Volkov and V. Bizer* . . 671

Der Unfall im Kindesalter. Klinik-Rehabilitation-Prophylaxe—*F. Rehbein* (Editor) . 672

Cervical Pain—*Carl Hirsch and Yngve Zotterman* (Editors) 672

The Shoulder and Neck—*James E. Bateman* 673

Calcified Tissue. Structural, Functional and Metabolic Aspects—*J. Menczel and A. Harell* (Editors) 673

Diagnostic Orthopaedic Pathology—*C. G. Woods* 673

Bone Tumors (Fourth edition)—*Louis Lichtenstein* 674

Joint Injuries of the Hand—*Richard G. Eaton* 674

Shands' Handbook of Orthopaedic Surgery (Eighth edition)—*R. Beverly Raney, Sen., and H. Robert Brashear, Jun.*. 674

Orthopaedics and Accidents—*Margaret Miller and James H. Miller* 675

Heritable Disorders in Orthopaedic Practice—*Ruth Wynne-Davies* 888

The Management of Musculo-skeletal Problems in the Haemophilias—*Robert B. Duthie, James M. Matthews, Charles R. Rizza and William M. Steel* 888

The Human Spine in Health and Disease (Fifth German and Second American edition)—*Georg Schmorl* 889

Injuries of the Cervical Spine—*R. Braakman and L. Penning* 889

Injuries of the Spinal Cord. The Management of Paraplegia and Tetraplegia—*Neville G. Sutton* 890

Having an Operation—*Edith Rudinger* (Editor) 890

Metabolic, Degenerative, and Inflammatory Diseases of Bones and Joints—*Henry L. Jaffe* 890

VOLUME CONTENTS

Page

Metabolic Bone and Stone Disease—*B. E. C. Nordin* 891

Ultrastructure of Bone and Joint Diseases—*Kazushi Hirohata and Kazuo Morimoto* . 891

Calcium, Parathyroid Hormone and the Calcitonins—*Roy V. Talmage and Paul L. Munson* (Editors) 892

Symposium on Myelomeningocele—*Produced by the Committee on the Care of the Handicapped Child and under the sponsorship of the Committee on Continuing Education, the American Academy of Orthopaedic Surgeons* 892

Instructional Course Lectures. Volume XXI—*American Academy of Orthopaedic Surgeons* 892

Vertebral Manipulation (Third edition)—*G. D. Maitland* 893

Understanding the Scientific Bases of Human Movement—*Alice L. O'Connell and Elizabeth B. Gardner* 893